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# State Water Resources Control Board

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**TO:** Lach McClenahan  
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**VIA E-MAIL**

**FROM:** /s/  
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**DATE:** September 12, 2001

**SUBJECT:** DSMOA/CA SEMIANNUAL PERFORMANCE REPORT - CONTRACT NO. 00-T2062

The State Water Resources Control Board's (SWRCB) Semiannual Performance Report for the January 1 through June 30, 2001 reporting period is complete. The reporting format follows the CA Process Guide. Please note that each Two-Year Joint CA Execution Plan Status for SWRCB lead facilities is included in the Attachments. We have indicated that Two-Year Joint CA Execution Plan Status for DTSC lead facilities is to be found in the DTSC Semiannual Performance Report.

Pursuant to Paul Lancer's request, we are providing some Success Stories. We identified some of the more significant Success Stories and extracted them from the Semiannual Performance Report.

The Semiannual Performance Report (Word), Attachments (PDF) and Success Stories (Word) are transmitted to you electronically. If you have any questions concerning this electronic transmittal, please call me at (916) 341-5630 or Kitty Hightower at (916) 341-5730.

cc: Stan Phillippe, DTSC  
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**STATE WATER RESOURCES CONTROL BOARD  
REGIONAL WATER QUALITY CONTROL BOARDS  
DEPARTMENT OF DEFENSE (DoD) PROGRAM**

**SEMIANNUAL REPORT**

**January 1 – June 30, 2001**

**per**

**Contract Number 00-T2062**

**between the**

**Department of Toxic Substances Control**

**and the**

**State Water Resources Control Board**

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**NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD  
DEPARTMENT OF DEFENSE (DoD) PROGRAM  
SEMIANNUAL REPORT  
(January 1 - June 30, 2001)**

**POINT ARENA AIR FORCE STATION – PCA NO. 16602**

**Progress:**

The overall restoration program continues to fall behind with the Two-Year Joint CA Execution Plan. However, the draft of the Closure Report for the Motor Pool Area and the Small Arms Range was submitted and is undergoing review by the Regional Board. Other Quarterly Monitoring Reports were submitted and reviewed. On March 1, 2001, the Regional Board attended an annual meeting with the ACOE Project Manager and a site inspection. On June 28, 2001, the Regional Board rescinded WDR Order No. 97-41, with post remedial monitoring, for the clean closure of the former solid waste disposal site.

Interim remedial actions, which included free-product removal via a bailer, were conducted by the on-site caretaker who passed away during 2000. The free-product removal was suspended. A consultant was hired to conduct quarterly monitoring. Free-product recovery pumps were purchased by the Air Force for installation in the monitoring wells with free-product. However, the free-product has recently diminished to a level which is extremely difficult to remove.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**CENTERVILLE BEACH NAVAL FACILITY – PCA NO. 16603**

**Progress:**

The overall restoration program is behind schedule with the Two-Year Joint CA Execution Plan even though remediation is complete at all sites. Work activities continue to not materialize as expected. The Navy is still attempting to transfer the closed facility to USGSA as soon as possible. There is a proposal for the land to be included in a nature conservation area with surrounding tracts.

**Challenges:**

The need for post-ROD ground water monitoring was not considered in the Navy's proposal. This issue must be addressed prior to adopting the ROD. The State agencies involved are currently reviewing the specific language in the draft ROD/RAP.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

## **SANTA ROSA ARMY AIRFIELD (SRAA) – PCA NO. 16911**

### **Progress:**

The overall restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Funding shortfalls continue to impede cleanup efforts at the site. A newly-assigned Regional Board RPM reviewed files and background reports to become familiar with the site.

### **Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

## **SANTA ROSA NAVAL AUXILIARY AIR STATION (SRNAAS) – PCA NO. 16912**

### **Progress:**

The overall restoration program is behind schedule with Two-Year Joint CA Execution Plan. Additional work proposed by USACE staff has not been completed. However, the Workplan for the RI is in progress. Funding shortfalls continue to impede cleanup efforts at the site. A newly-assigned Regional Board RPM reviewed files and background reports to become familiar with the site.

### **Success Stories:**

The Regional Board enjoys a very good working relationship with the USACE and its consultants.

### **Execution Plan Status:**

See attachments to this report.

## **ARCATA AUXILIARY NAVAL AIR STATION/EUREKA AIRPORT – PCA NO. 16914**

### **Progress:**

The overall restoration program is behind schedule with the Two-Year Joint CA Execution Plan that was completed by the Regional Board. Budget issues continue to contribute to delays. The USACE did not sign the Execution Plan.

### **Challenges:**

The USACE continues to believe the site is close to closure. The Regional Board does not concur, and will require additional investigation and cleanup work. There continues to be a need for wells to be installed to monitor the fuel releases. The Regional Board identified 200 hours in the recently completed Annual Funding Review but the USACE has not identified any FY 01-02 funding for this site.

### **Execution Plan Status:**

The USACE did not sign the Execution Plan.

**SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD  
DEPARTMENT OF DEFENSE (DoD) PROGRAM  
SEMIANNUAL REPORT  
(January 1– June 30, 2001)**

**HAMILTON ARMY AIRFIELD - GSA PHASE II (INCLUDES LANDFILL #26) – PCA  
NO. 16604**

**Progress:**

**The 800-B and Ammo Hill Parcels (GSA Phase II)-Landfill 26:** – The restoration program is behind schedule with the Two-Year Joint CA Execution Plan due to resources being used to define the extent and nature of methane gas from the landfill. Defining the nature and extent of the methane gas was not envisioned when the Execution Plan was originally negotiated. Methane gas, exceeding five percent by volume, continues to be detected in soil gas probes located along the south and southeastern Landfill 26 perimeter, and beyond the landfill perimeter in soil gas probes installed on property currently owned/developed by a private residential housing developer. The Regional Board requested the USCAE prepare a technical report for controlling and managing the generation and migration of gas at Landfill 26.

The USACE submitted the report to the regulatory agencies on March 30. The remedial measures study identified short-term, stop-gap measures and long-term corrective measures for managing the landfill gas. The USACE has delayed further study of the extent of the gas and design and installation of the proposed remedy(ies) on account of funding issues.

Oversight expenditures were above projected levels because of activities associated with the methane gas. Regional Board staff spent considerable time responding to questions and concerns from the public and requests from site developers regarding the methane gas problems from the landfill.

**The North Antenna Field:** The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. The USACE has still not delivered the Draft RI for the site, therefore, little activity has occurred. The USACE has focused its energy on addressing the Hamilton Landfill 26 methane problem, including realigning funding from the North Antenna Field to deal with the Landfill 26 gas issues.

The USACE is having the Waterways Experiment Station evaluate treatment of lead-contaminated soils with a phosphate type in-situ treatment. This approach will need to be carefully evaluated in terms of mobility, toxicity, and the resulting bioavailability of the soils. This approach has yet to be applied to similar sites. A presentation on the approach was made to the regulators and resource trustees.

**Challenges:**

At the time the Execution Plan for GSA Phase II (Landfill 26) was developed, the methane gas problem was unknown. The USACE must now secure the funds to address this unforeseen issue.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**CONCORD NWS – PCA NO. 16608****Progress:**

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. The Regional Board does not have a signed copy of the Execution Plan from DTSC.

The Navy and EPA signed the Federal Facility Agreement (FFA). EPA is now requesting that the Navy provide them with a Site Management Plan and updated schedule. The Navy has stated that they will respond to these requests.

The Army, under an indefinite use permit, is planning to use the tidal area for their operations. The inland areas will continue to remain under Navy ownership, however, the Navy has been in discussions with the local community regarding a 'joint use' of the property.

Some activities related to Underground Storage Tank sites occurred. Additional field investigations at a former Port Chicago gasoline site were conducted and a previously unknown tank was located. The Navy is working with its contractor and the County to schedule its removal. The Navy responded to Regional Board staff comments relating to Sites A-16 and E-108.

The Navy completed the Draft-Final Taylor Boulevard Bridge (TBB) Remediation Investigation, the 5-Year Periodic Review Assessment Report, and responded to comments on the Draft Final RI Workplan for the Inland Ground Water Sites. Regional Board staff submitted comments on the TBB RI and the Draft Final RI Workplan and is currently reviewing the 5-Year Periodic Review Assessment Report.

There continues to be no scheduled RAB meetings.

**Challenges:**

The Draft Final RI Workplan is currently the subject of informal dispute regarding additional sites for sampling and additional sampling parameters. Issues also exist with regard to the Quality Assurance Plan. The EPA project management changed in the middle of activities being scheduled to resolve these matters. Resolution is expected to be forthcoming.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.



## **HUNTER'S POINT NAVAL SHIPYARD – PCA NO. 16609**

### **Progress:**

The restoration program is about three months behind schedule with the Two-Year Joint CA Execution Plan, as amended earlier this year. Oversight expenditures are below projected levels due to turnover in Regional Board staff, thereby limiting activities. Numerous soil removal actions have been completed and pilot scale soil vapor extraction systems are currently operating on Parcels B and D. The Navy has also prepared a Corrective Action Plan for petroleum hydrocarbons (CAP) for Parcels C, D, and E. Chemical oxidation treatability studies for CERCLA ground water contaminants have been stopped in order to troubleshoot the recent unauthorized release of chemical oxidants into San Francisco Bay. Additional characterization of Parcels C and E is being planned and field work for the Parcel F Validation Study has been completed.

### **Challenges:**

The agencies are currently informally resolving a dispute regarding cleanup of soils containing high levels of manganese. In April, the Navy caused an unauthorized release of potassium permanganate into San Francisco Bay while conducting a ground water treatability study. Additionally, the local community has expressed grave concerns about radiation at the site following several articles in local publications about radiological activities. Recently, the Navy has identified several new areas where unacceptable levels of radiation exist, including portions of the Parcel E shoreline.

### **Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

## **MOFFETT FIELD - PCA NO. 16610**

### **Progress:**

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. However, the plan is out-of-date because a new FFA Schedule was negotiated and signed on October 25, 2000. The San Bruno team re-evaluated previous work on several sites and identified data gaps requiring additional investigation. None of the activities specified in the Execution Plan for the Golf Course Landfill (Site 22), Stationwide (Site 25) and Northern Channel (Site 27) are complete.

A modified Execution Plan, agreed to on March 15, more accurately represents the milestones that may be achieved during the Two-Year period. However, the modified Plan is already out-of-date with respect to Site 27, due to a dispute over the schedule that was initiated by the Navy at the end of March (see below). The FFA Schedule was revised again in mid-June.

During the dispute resolution process for Site 27, the Navy argued that the nature and extent of contamination were not sufficiently characterized and, therefore, an accurate estimate of cleanup cost was not possible. In addition, they requested additional document review time to allow for

review by the property owner (the Navy recently discovered that they do not own the contaminated Northern Channel). The agencies eventually agreed with the Navy's request 1) to perform additional soil/sediment work and 2) that the extension of the document review schedule was justified. However, the agencies did not agree that additional ecological risk assessment work was needed and did not grant additional time for conducting this work. The Navy still plans to perform additional risk assessment studies but the work does not add time to the re-negotiated FFA schedule.

Certain other milestones in the Execution Plan have been achieved, though not on schedule. These are the Ground Water Quarterly Reports, EATS and WATS NPDES Self-Monitoring Reports, and the Draft ISRM Interim Field Test Report. However, since NPDES effluent limitations have been exceeded, the Westside Aquifer Treatment System (WATS) has been shut-down for several months while the system is redesigned to address the problem.

**Challenges:**

The most significant challenge has been the informal dispute resolution process initiated by the Navy over the Site 27 (Northern Channel) cleanup schedule. The Navy Workplan for this site will be controversial because it will propose risk characterization work that is unnecessary for the proposed reuse of the land.

**Execution Plans Status:**

See attachments to this report.

**RICHMOND NSC (POINT MOLATE) (BRAC IV) - PCA NO. 16612**

**Progress:**

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan, but on schedule with the field programs identified in a master schedule for the restoration program negotiated after the Execution Plan was signed. Field work was completed at the following sites:

**Site 3:** Field work was conducted to evaluate remedial options to recover free-product and address contamination in soil and ground water. Additional site characterization was necessary to obtain a more complete and current data set on the volume of soils that contain concentrations of contaminants that exceed agreed-upon action levels, as well as the volume of industrial waste disposal at the former fuel reclamation facility.

**Site 4: (Drum Lot #1 and the Shoreline Areas):** Sampling was necessary to collect additional data in support of a screening-level evaluation of human health and ecological risk.

**Additional Phase II Environmental Base Survey (EBS) (former Fire Range and Building 87 [former pesticides storage warehouse, equipment rinse area, former USTs]):** The proposed work involved excavating contaminated soil hot spots, collecting and analyzing soil confirmation samples, and disposing of contaminated soil. Contaminants that have been detected in ground water near Building 87 were monitored as part of a base-wide ground water monitoring program.

A Product Recovery Summary Report was submitted to the Regional Board in April and a Final Action Memorandum for Site 1 was submitted to the Regional Board in June. Regional Board staff reviewed the draft and final workplans for all the above field programs and sent out concurrence letters on June 18.

**Challenges:**

Finding a good technical design for the proposed final cover for Site 1 Landfill and starting the construction work before the rainy season.

**Success Stories:**

The base is on schedule with the restoration program master schedule that was negotiated after the Execution Plan was signed. Working with the Navy and their consultants by meeting and discussing field programs in advance of final workplan submittals has proven successful in generating a quick regulatory review time.

**Execution Plan Status:**

See attachments to this report.

**SKAGGS ISLAND NSGA – PCA NO. 16615**

**Progress:**

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. Regional Board staff spent most of their time negotiating Regional Board work on USTs and file reviews for UST closures. Oversight expenditures are below projected levels because the site budget was overestimated.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**TRAVIS AFB – PCA NO. 16619**

**Progress:**

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. Twelve tasks were completed, nine are ongoing, and five have been deferred to Year 2. Interim ground water remedial actions are continuing at sites in the West/Annexes/Base-wide Operable Unit (WABOU) and North East West Industrial Operable Unit (NEWIOU). Treatment system start-up reports were reviewed and approved. Operations and Maintenance (O&M) Manuals for the South Base Boundary Ground Water Treatment Plant (SBBGWTP), North Ground Water Treatment Plant (NGWTP), and Central Ground Water Treatment Plant (CGWTP) were updated due to the addition of new extraction wells at the base. Monthly and Semiannual NPDES monitoring reports for discharges of extracted and treated ground water have been evaluated for compliance.

The USEPA and DTSC have rejected the results of the Ecological Risk Assessment based on technical disagreements. This has led to delays in finalizing the soil ROD for the WABOU and may cause further delays in the soil, sediment, and surface water ROD for the NEWIOU.

Negotiations continue for closure requirements for Landfill LF007 and construction requirements for the Corrective Action Management Unit (CAMU) to be located atop LF 007. Significant progress was made in the negotiations as the Air Force is addressing all Regional Board comments.

Both the Remedial Design/Remedial Action (RD/RA) Strategic Plan and the Long-Term Operation Strategic Plan were reviewed. These documents discuss the ongoing activities at each of the soil and ground water remedial action sites and the funding and future goals for achieving remedial actions and closure at the 'relative high risk' sites. Comments were provided during our planning meetings that were held with the agencies and Travis.

**Challenges:**

The Regional Board has requested that the Air Force revise two ground water Record of Decision (ROD) documents to include all the substantive requirements specified in Regional Board Order No. 99-051 (General National Pollutant Discharge Elimination System [NPDES] Permit for Discharge or Reuse of Extracted and Treated Ground Water Resulting from the Cleanup of Ground Water Polluted by Volatile Organic Compounds). The Air Force has proposed to revise the O&M Manuals to include these requirements. Negotiations are ongoing.

**Success Stories:**

The Regional Board agreed to reduced ground water monitoring at some sites where sufficient data have been collected. The Air Force presented their proposed monitoring plan during a monthly meeting where rationale was provided to reduce both sample frequency and sample analytes at some locations. This reduced monitoring program will result in substantial cost savings for the project without compromising the adequacy of the data.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**POINT OZOL – PCA NO. 16621**

**Progress:**

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are below projected levels because the Site Risk Assessment was not approved, which led to UST closure requests not being submitted by the DESC. The Regional Board has not approved the Site Risk Assessment because of the presence of free-product and DESC's pending review and evaluation of the current remediation system's effectiveness in recovering free-product.

**Execution Plan Status:**

See attachments to this report.

**HAMILTON ARMY AIRFIELD ( BRAC 1) – PCA NO. 16635****Progress:**

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Transfer of the Inboard Sites property to the State of California has been delayed, pending finalization of the requirements for the Remedial Action Plan (RAP). The Coastal Conservancy, the local sponsor of the wetland restoration project, has been in negotiations with the Army regarding an early transfer of the property. Under this agreement, the Coastal Conservancy would implement the RAP. DTSC continues to raise concerns about the level of cleanup required at the site and what needs to be addressed in the RAP. The restoration project partners, the Coastal Conservancy and the USACE, San Francisco District, have raised major issues regarding timing of the transfer and funding tied to the transfer schedule. Due to these concerns, they organized a Hamilton Summit and invited management level staff from various agencies to work together to achieve resolution of agency issues. The Army has now submitted a Draft Remedial Action Plan for the Inboard Sites. Regional Board staff is currently reviewing the RAP.

The Army submitted a revised Focused Feasibility Study for regulatory and resource trustee agencies' review. Regional Board staff submitted comments and the Army recently submitted partial responses to those comments. Renewed discussions regarding the schedule of the Coastal Salt Marsh investigation and cleanup have occurred.

The Regional Board received the Army's responses to Regional Board comments and/or concerns regarding two other sites: Parcel A-4 and POL Hill. An EPA/FOST for both the Hospital Hill and POL Hill Sites has been submitted for review and will need to be revised based on discussions with the Regional Board. The POL Hill parcel boundaries are to be revised so that both the Landfill 26 buffer zone and the pump-and-treat system building will remain with the Landfill 26 Site. The Army has proposed monitored natural attenuation as the remedy for the petroleum-contaminated ground water plume at the POL Hill Site. The Army submitted a closure report which needs to be rewritten to address the proposed remedy. The Army has addressed Regional Board concerns related to Parcel A-4.

**Challenges:**

The Inboard and the Coastal Salt Marsh Sites pose the greatest challenges for this property. Working with the Army, the regulators, and resource trustees to resolve all outstanding issues is time-consuming and challenging. Implementation of the proposed reuse, a wetland restoration project, creates both the potential for an ecological risk, as well as some uncertainty about the adequacy of that remedy. That uncertainty is due, in part, because the design of the wetland will be finalized after the property is transferred and the restoration relies, in part, on natural processes that are not 100 percent predictable. DTSC management has been actively involved in addressing these outstanding issues.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**OAKLAND ARMY BASE – PCA NO. 16921****Progress:**

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. The Army has implemented corrective action identified in the CAP for all removed USTs according to the schedule. The Regional Board provided comments and approved the following two reports:

1) Final Corrective Action Implementation Report for Petroleum Tanks, and 2) the Monitoring Well Closure Workplan.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**HAMILTON NOVATO DoD HOUSING – PCA NO. 16922****Progress:**

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are above projected levels because of activities associated with the MTBE plume and issues surrounding future land use by the Novato Unified School District (NUSD). Regional Board staff has had to respond to concerns from the public and requests from site developers.

Since adoption of Order 00-064, the NUSD and the Navy have decided to split the parcel overlying a petroleum hydrocarbon plume into an eastern clean-half and western petroleum-impacted half. Regulatory approval for construction of a charter school on the eastern clean-half of the property was approved in early 2001 and the NUSD has entered into a lease with the Navy to bring in portable classrooms. For that western portion of the property designated as a Public Benefit Conveyance overlying petroleum-impacted soil and ground water, the Navy is working closely with the DTSC, and has nearly completed a DTSC School's Risk Assessment.

**Challenges:**

Much staff time continues to be spent responding to requests by the developers to gain permission to manage contaminated soil and ground water in the area restricted by the Land Use Covenant, as discussed in the previous Semiannual Performance Report.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

## **GOLDEN GATE NATIONAL RECREATION AREA – PCA NO. 16925**

### **Progress:**

The USACE was requested to submit a Two-Year Joint CA Execution Plan but did not do so. The USACE has removed leaking USTs without cleaning up the pollution. The USACE was requested to submit reports on the UST removals and provide locations of the removed USTs but, to date, has failed to do so. Oversight expenditures are below projected levels because of work not being completed and reported.

### **Challenges:**

Convincing the USACE to submit an Execution Plan to address cleanup of petroleum pollution issues and to provide reports on, and locations of, past UST removals.

### **Execution Plan Status:**

The USACE did not agree to an Execution Plan.

## **ALMADEN AIR FORCE STATION – PCA NO. 16927**

### **Progress:**

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan completed by the Regional Board but not signed by the USACE. The USACE has not responded to the Regional Board's February letter requesting that the USACE prepare an Execution Plan for this site. Oversight expenditures are below projected level due to work not being performed.

### **Challenges:**

It continues to be a challenge to get the USACE to comply with California law requiring cleanup of leaking USTs.

### **Execution Plan Status:**

The USACE has not submitted an Execution Plan.

## **EAST FORT BAKER – PCA NO. 16929**

### **Progress:**

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are below projected level because the original site budget was overestimated. The Army has completed all of the necessary remedial activities for the onshore portion of the site. The results of the offshore sediment investigation are being evaluated by the agencies and a recommended course of action was identified.

The results of the offshore sediment characterization are equivocal and indicate that high levels of pollutants are present at depth in the sediment. There is some concern that the polluted

sediments at depth may hinder the National Park Service's potential plans to improve the facilities at Horseshoe Bay. Additionally, elevated levels of polycyclic aromatic hydrocarbons (PAH) were detected in surface sediments and appear to be causing impacts to the biota in Horseshoe Bay. The PAHs are likely associated with creosote timbers used in pier construction.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**BENICIA ARSENAL – PCA NO. 16944**

**Progress:**

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are below projected levels because funding has been given primarily to ordnance clearance activities that the Regional Board does not oversee.

Geophysical field work at two of the landfills and one quarry site has been completed. One quarry site remains to be investigated pending completion of ordnance and explosives (OE) clearance. Of the sites investigated thus far, waste material was only encountered in Landfill 2. As specified in the Field Sampling and Investigation Plan, three monitoring wells were to be installed at the site. Three borings were advanced to bedrock and no ground water was encountered. Surface soil sampling was conducted at the landfill/quarry sites in late June.

**Challenges:**

Ordnance clearance activities are extending beyond the planned timeframe due to slower-than-expected field progress and additional funding has now been allocated to complete this field work. The funding for the field work will now reduce funds for the Hazardous Toxic and Radioactive Waste Investigation and remediation work at the Arsenal.

**Success Stories:**

The Benicia Arsenal Technical Team, comprised of USACE, agency, and Army contractor representatives, has worked closely together and is using daily field updates submitted via email to ensure close collaboration and rapid decision-making during field work.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.



**CENTRAL COAST REGIONAL WATER QUALITY CONTROL BOARD  
DEPARTMENT OF DEFENSE (DoD) PROGRAM  
SEMIANNUAL REPORT  
(January 1 – June 30, 2001)**

**FORMER FT. ORD ARMY BASE/PRESIDIO OF MONTEREY ANNEX - PCA NO. 16622**

**Progress:**

The restoration program is on schedule with all water-related issues in the Two-Year Joint CA Execution Plan. Site-specific details are below:

**OU2 Landfill Closure** - A pilot project gas remediation system design was approved, constructed, and recently began full-time operation.

**OU2 Contaminant Plume** – The pump-and-treat system expansion was completed in May. The project nearly doubled the system's capacity; from 26 million gallons per month to nearly 50 million gallons per month.

**OU1 Contaminant Plume** - No significant new activities have been conducted during this reporting period.

**Sites 2/12 Contaminant Plume** - Approval was given to an Army technical memorandum proposing a temporary increase in the vinyl chloride discharge limit from 0.1 to 0.5 ppb. The limit increase results in considerably quicker, more efficient, and cost-effective contaminant removal.

**Carbon Tetrachloride Plume** - Twelve new ground water monitoring wells were installed.

**Challenges:**

The Army's contractor has developed a base-wide program to transition from traditional purge-and-sample techniques to use of passive diffusion samplers. With over two hundred ground water monitoring wells on- and off-base, the installation could reduce monitoring costs by approximately 60 percent after full implementation in two to three years. Regional Board staff has researched passive diffusion sampling and is supporting the Army's proposed transition.

**Success Stories:**

When evidence of methane gas migration was confirmed at the former Ft. Ord Landfill in late 2000, the Army moved rapidly to notify nearby residents. Despite the relatively minor amounts of methane gas being detected, the Army worked closely with Regional Board staff to expedite additional soil gas sampling and approval of a gas remediation system design. As a result of this coordinated effort, the Army began 24-hour operation of the landfill gas extraction/treatment system on June 4, 2001.

**Execution Plans Status:**

See DTSC Semiannual Performance Report for Two-Year Joint CA Execution Plan that has “Status” annotated.

**PRESIDIO OF MONTEREY – PCA NO. 16623****Progress:**

The restoration program is behind schedule with some activities in the Two-Year Joint CA Execution Plan. The oversight under-expenditures are the result of delayed work activities for the Building 262 demolition. Long-term maintenance for the closed landfill is on schedule. Site-specific details are below:

**Landfill Closure** – One post-closure site visit was conducted. Vegetative cover and stormwater runoff control improvements were noted.

**Building 262** - A Remediation/Demolition Workplan Addendum was approved. One pre-demolition site visit was conducted.

**Execution Plans Status:**

See attachments to this report.

**FORT HUNTER LIGGETT – PCA NO. 16624****Progress:**

The restoration program is on schedule with the Two-Year Joint CA execution Plan. Action is complete at 30 of the 34 Army Restoration Sites. The oversight budget is under-expended. Cost savings have been possible because of a highly effective working relationship with the facility representatives and because the high quality of the work performed by the Army’s consultant has expedited the document review process. Site-specific details are below:

**Landfill Closure** – Landfill closure activities are on schedule and quarterly ground water monitoring of the landfill is ongoing.

**Landfill Ground Water Investigation** – The ground water plume has been fully characterized and the Army has implemented a pilot study of enhanced natural attenuation of the TCE/DCE plume. Evaluation of contaminant concentrations and natural attenuation parameters during the first quarter of 2001 suggest that the hydrogen-release compound may have accelerated the degradation process. Monitoring and evaluation of the remedial action will continue through 2001.

**Building 194 Site** – At the beginning of 2001, the Army completed the evaluation of a November 2000 pilot study of enhanced natural attenuation involving the injection of an oxygen-release compound and initiated a second pilot test involving the injection of hydrogen peroxide.

**Building 258 Site** – Preliminary results of the ongoing ground water assessment show that petroleum-related contaminants extend further downgradient than expected. Work to delineate the extent of the plume is ongoing and the ground water assessment should be completed later this year. However, the Army believes that this problem should be addressed as a compliance issue and is searching for non-DEIRA funding for subsequent remedial actions.

**Success Stories:**

**Landfill Ground Water Investigation** – Preliminary results from the pilot study on enhanced natural attenuation are promising.

**Building 194 Site** – Preliminary results of the second pilot study indicate that the injection of hydrogen peroxide could be an effective remedial action at the site.

**Base-wide Program Sites** - The Army completed well abandonment activity at all inactive and closed sites at the facility. A total of 35 wells were abandoned since February 2001.

**Execution Plans Status:**

See DTSC Semiannual Performance Report for Two-Year Joint CA Execution Plan that has “Status” annotated.

**VANDENBERG AFB – PCA NO. 16626**

**Progress:**

The restoration program is behind schedule with some activities in the Two-Year Joint CA Executive Plan. The activities listed in the Execution Plan were based on the Federal Facility Site Remediation Agreement (FFSRA) schedule at the time the Plan was prepared. However, due to funding constraints, the FFSRA schedule was revised and approved in August 2000. In addition, Vandenberg AFB has proposed another revised FFSRA schedule (Draft 2001 Update) due to outstanding ecological issues currently subject to Dispute Resolution. Activities not impacted by the FFSRA revisions are on schedule. Site-specific details are below:

**Preliminary Assessment/Site Inspection** – Five Areas of Concern were closed from the Delivery Order 32 Final Site Inspection Report; approval was given to the Delivery Order 60 Workplan Addendum; and approval was given for No Further Action/No Further Investigation at 187 Areas of Interest.

**Non-Petroleum Contaminated Sites** – Approvals were given for: nine Workplans; three Field Modification Reports; five Technical Memoranda; two Engineering Evaluation/Cost Analysis; three Removal Action Workplans; two Remedial Investigation Reports, and 32 Monitoring Reports.

**Petroleum Contaminated Sites** – Approvals were given for: four Field Modification Reports; two Monitoring Reports; three Technical Memoranda; and one Feasibility Study.

**Challenges:**

Disagreement exists between Vandenberg AFB and the Department of Toxic Substances Control on Toxicity Reference Values (TRVs) to be used in the ecological risk assessment. Since an ecological risk assessment is part of the Remedial Investigation, completion of the Remedial Investigation and Feasibility Study hinges on a timely resolution of the TRVs. Vandenberg AFB invoked formal Dispute Resolution on March 15, 2001. The Dispute Resolution Committee has been unable to reach agreement on a compromise position, therefore, the dispute has been elevated to the Senior Executive Committee.

**Success Stories:**

Two Installation Restoration Program sites were closed; five Underground Storage Tank sites were closed; 37,500 tons of petroleum-contaminated soil was excavated from the Capehart Housing Project and is currently being remediated to below cleanup levels in bio-cells; and 15,000 gallons of petroleum-contaminated ground water was extracted and treated at Site 20 UST (200 pounds of hydrocarbons were removed from extracted vapor, and six pounds from extracted ground water).

**Execution Plans Status:**

See DTSC Semiannual Performance Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**LOMPOC BRANCH U.S. DISCIPLINARY BARRACKS – PCA NO. 16930****Progress:**

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. The oversight under-expenditures are the result of all work being on hold until the Army negotiates a fixed-price contract for all subsequent activities. Site-specific details are below:

**Farm Fuel Area** – The Army submitted a Corrective Action Report in January 2001, which documented prior tank removal and source area excavation. The Regional Board provided comments on this report in April 2001 and the Final Report was received in June.

**Former Wood Dump/Landfill** – Regional Board staff provided comments on the Draft Site Investigation Report in March 2001. The Final Site Investigation Report was submitted to the Regional Board in June.

**Washrack and Former Outside Greaserack** – Regional Board staff provided comments on the Draft Site Investigation Report in March 2001. The Final Site Investigation Report was submitted to the Regional Board in June.

**Scarring Area** – No activities have been conducted at this site.

**Underground Storage Tanks, Powerhouse Site** – No activities have been conducted at this site.

**Underground Storage Tanks, Transportation Site** – No activities have been conducted at this site.

**Challenges:**

The reports reviewed this year have been of poor quality and additional characterization and evaluation is necessary. The Army is currently negotiating a fixed-price contract for closure of all of these sites. However, operating under such a contract when the sites are not fully characterized may make it difficult to reach agreement on closure requirements.

**Execution Plans Status:**

See attachments to this report.

**CAMP ROBERTS - PCA NO. 16931**

**Progress:**

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. The oversight under-expenditure are the result of both staff vacancies at the Regional Board and site inspection activities and reporting delays by the Army. Site-specific details are below:

**Base-wide SI** - Site inspection activities are ongoing. A Draft Site Inspection Report was received in April 2001. The SI consisted of limited soil sampling at 18 sites and ground water samples at three sites. The Army will submit a workplan for additional SI activities after receipt of comments from Regional Board staff. The Installation Action Plan has not been submitted to the Regional Board.

**Buried Drum Removal, Building 7026** - The Army National Guard submitted a Workplan for the Removal of Buried Drum in May 2001. Based on comments from Regional Board staff, a revised workplan was submitted in June and will be implemented in August.

**Challenges:**

Some of the SI-related documents have not been submitted in a timely fashion, which has created problems in the review of the SI Report and the Buried Drum Removal Workplan. Regional Board staff is working with the Army National Guard to develop a schedule for document submittal and to establish a closer working relationship.

**Execution Plans Status:**

See attachments to this report.

**MONTEREY PENINSULA AIRPORT DISTRICT – PCA NO. 16939**

**Progress:**

The restoration program is behind schedule with some activities in the Two-Year Joint CA Executive Plan. Oversight over-expenditures are primarily a result of unscheduled and increased activities dealing with funding acquisition, public outreach, expanding the

identification of potential contaminant sites, and training new Regional Board staff. The USACE secured project funding in Year 2000 and has begun making substantial progress toward their goals. Regional Board staff has proposed the drafting of a Monterey County ordinance limiting drilling of ground water wells within the affected areas of the petroleum and TCE plumes. This approach has been used successfully at the former Ft. Ord and has been well received by airport stakeholders. Site-specific details are below:

**UST Area Ground Water Investigation** - Site assessment activities (hydraulic push sampling) were completed and presented to the surrounding community.

**Former Airplane Repair and Cleaning Facility (Building 17) Ground Water Investigation** - Site assessment activities (hydraulic push sampling) were completed and presented to the surrounding community.

**Fire Training Area** - A draft final report proposing No Further Action was reviewed and additional soil remediation work is being required.

**Execution Plans Status:**

See attachments to this report.

**LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD  
DEPARTMENT OF DEFENSE (DoD) PROGRAM  
SEMIANNUAL REPORT  
(January 1 – June 30, 2001)**

**POINT MUGU, NAVAL AIR WEAPONS STATION – PCA NO. 16632**

**Progress:**

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. The majority of the tasks identified for Year One were moved to Year Two and additional new tasks were completed during Year One of the Execution Plan. Under-expenditures are due to limited document review and work activities that did not materialize as envisioned in the original Execution Plan. Remediation of the Exchange Gasoline Station continues. Electrokinetic remediation of metals at IR Site 6 is progressing. Lactic acid treatment pilot tests for solvent plumes are progressing at two sites. Base-wide surface and ground water assessment is progressing.

**Challenges:**

Electrokinetic treatment for metals has proven more challenging than expected. The protection and cleanup of surface and ground water is complicated by inflow from adjoining water sources throughout the base. Preparing a streamlined, multi-site pilot test permitting method remains an important goal.

**Success Stories:**

Lactic acid treatment for solvents at IR Site 24 has met with success, and shows potential at IR Site 6.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated

**PORT HUENEME, NAVAL CONSTRUCTION BATTALION CENTER – PCA NO. 16633**

**Progress:**

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Some tasks identified for Year One were moved to Year Two of the Execution Plan. Over-expenditures are due to work activities that materialized that were not envisioned in the original Execution Plan, primarily the review of documents and meetings related to MTBE plume containment and control. Under-estimating the original oversight budget also contributed to over-expenditures for this site. The successful operation of the in-situ remediation technology demonstration pilot test continues. The containment and control system for the toe of the 5,500 foot long MTBE plume was installed on time and is undergoing operational tests.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated

**LOS ANGELES AFB - PCA NO. 16636****Progress:**

The Air Force did not prepare an Execution Plan. Regional Board staff did develop an Execution Plan, which contained the task that needed to be completed to obtain site closure of this facility. However, the Air Force did not agree with or sign the Plan. Under-expenditures are due to work activities that did not materialize, as envisioned by the Regional Board. Ongoing negotiations continued with the Air Force on the closure requirements for the former Landfills LF01 and LF18. The Closure Report for Building 241 has been completed and is undergoing review.

**Execution Plan Status:**

The Air Force did not sign an Execution Plan.

**DFSP SAN PEDRO (DESC) – PCA NO. 16637****Progress:**

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. The soil remediation systems in the Pump House Area are ongoing and the vapor recovery has increased since the expansion of the remediation system in the northwest portion of Buildings 204 and 205. The Regional Board is evaluating naturally-occurring crude oil information to use for a criterion for closure of the Tank Farm Area. Semiannual ground water sampling continues in both the Tank Farm and the Administration Areas.

**Challenges:**

Various fuels have been detected as adsorbed phase, dissolved phase, and free-product in the Administration Area. The delineation of soil and ground water impacted by these fuels and its remediation are yet to be completed. Investigation needs to be completed to determine whether the ground water impacted with high level benzene is migrating from the Administration Area through an unknown pathway.

**Execution Plan Status:**

See attachments to this report.



## **DFSP NORWALK – PCA NO. 16638**

### **Progress:**

The restoration program is on schedule with the Two-Year Joint CA Execution Plan, except for the Risk-Based Corrective Action progress. Under-expenditures are due to the work activities that did not materialize as envisioned in the original Execution Plan. The Regional Board and the Office of Environmental Health Hazard Assessment are still in the process of reviewing the response to comments package from the military on the draft RBCA Report for the off-site dissolved Phase 1,2 DCA and MTBE plumes. The military prepared the Tank Farm for site closure by removing all fuel products from the tanks and associated piping, and cleaning all tanks on-site. The military ceased their operations at the Norwalk Tank Farm in February 2001. This has expedited the soil cleanup process for this site. All current remediation activities will continue. A Long-Term Monitoring Program is in-place and continues to be implemented for the entire site.

### **Challenges:**

The long-term status of the remediation activities at the site continues to be an issue and has raised public concerns. The U.S Air Force, the property owner, has asked the General Services Administration to help expedite the lengthy property transfer process, which will be conducted concurrently with the cleanup of the site. City officials and State representatives will continue to work with military officials to pursue an accelerated schedule for the Tank Farm demolition and a soil cleanup process at this site.

### **Execution Plan Status:**

See attachments to this report.

## **NIKE BATTERY 29 (BREA) – PCA NO. 16942**

### **Progress:**

The restoration program is on schedule with the Two-Year Joint CA Execution Plan. All task were completed as scheduled. Concurrence and approvals were granted for all workplans and reports submitted. The Final Closure Report for the remediation of the Nike Missile Magazines and the support buildings was submitted and Regional Board staff reviewed and issued a No Further Action letter on February 5, 2001.

### **Success Stories:**

All demolition and backfilling of the excavations were completed for the three Nike Missile Silos with Regional Board concurrence.

### **Execution Plan Status:**

See attachments to this report.

### **OXNARD AIR FORCE BASE – PCA NO. 16943**

#### **Progress:**

The restoration program is generally on schedule with the Two-Year Joint CA Execution Plan. The site is not a high risk for water quality or direct human exposure. Under-expenditures are due to a combination of limited document review, funding constraints by the military that resulted in some work activities not being completed, and the original site budget was over-estimated. The assessment of the former landfill will continue and a plan will be developed to either cap the facility or excavate and properly dispose of the landfill material.

#### **Execution Plan Status:**

See attachments to this report.

### **NIRF UNDERSEA CENTER - PCA NO. 16945**

#### **Progress:**

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan. No restoration work was performed at this facility during the current fiscal year. Oversight under-expenditures are the result of a combination of work activities that did not materialize as envisioned in the original Execution Plan and funding constraints by the military that resulted in minimal work activities completed.

#### **Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

### **DFSP SAN PEDRO (NAVY) – PCA NO. 16947**

#### **Progress:**

The restoration program is behind schedule with the Two-Year Joint CA Execution Plan due to the lack of work completed by the military caused by access restrictions in the endangered species area. Under-expenditures are due to work activities that did not materialize as envisioned in the original Execution Plan. Ground water monitoring activities at Operable Unit (OU) 1 & 2 are ongoing.

#### **Execution Plan Status:**

See attachments to this report.

**CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD  
DEPARTMENT OF DEFENSE (DoD) PROGRAM  
SEMIANNUAL REPORT  
(January 1 – June 30, 2001)**

**RIVERBANK AAP - PCA NO. 16639**

**Progress:**

The Installation Restoration Program is generally on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures were higher than anticipated due to additional staff time required to address numerous deficiencies in several key documents (i.e., Five-Year Review). Additional staff time was spent negotiating substantive portions of Waste Discharge Requirements for the disposal of treated ground water to land. The ROD for the site requires that this discharge be regulated by a permit to be issued by the Regional Board.

The ground water extraction/treatment system is operating satisfactorily, although the operation and maintenance activities listed in the Execution Plan are still insufficient to provide data that demonstrates capture of the cyanide and chromium ground water plume. The Army, however, has reportedly initiated negotiations with the USACE Real Estate Department in Sacramento to begin discussions with off-site property owners for the installation of a new extraction well that will help ensure full capture of the ground water plume.

The Army continues to study, with Lawrence Livermore National Laboratory (LLNL), options for source control for the cyanide and chromium contamination in ground water. Sampling for the study was performed in 1999 and the treatability study was reportedly completed in 2001. The report however, has not been made available for agency review. The Army has stated that a pilot study will be implemented in 2001 if funding is available. The Army submitted a Final Five-Year Review in February of 2001 to evaluate compliance with the Record of Decision (ROD). This Five-Year Review was generally inadequate and addressed few of the comments submitted by the regulatory agencies for the draft Five-Year Review.

**Challenges:**

The Army has still not performed a comprehensive evaluation of the ground water extraction/treatment system to demonstrate full plume capture of the cyanide and chromium ground water contamination, as requested numerous times by Regional Board staff. The full-scale extraction/treatment system was installed in 1997.

The Army continues to reduce the monitoring frequency of several on- and off-site wells. The reductions to the monitoring program, which were based on recommendations from a study conducted by LLNL, were implemented without regulatory agency concurrence. Although the agencies were told of the proposed reductions prior to their implementation, the agencies were not allowed the opportunity to review the LLNL study, nor were they provided rationale for the proposed reductions. The ground water monitoring frequency reductions present additional challenges to evaluating the contaminant distribution and treatment system effectiveness at the site.

The Army has discontinued transferring treated wastewater from the ground water treatment system to the City of Riverbank because the city of Riverbank's treatment system is currently under a Cleanup and Abatement Order. The Army resumed discharging to the on-site evaporation/percolation ponds.

A Corrective Action Order was recently filed by the Department of Toxics Substance Control (DTSC), RCRA Unit against the facility. In a letter dated April 9, 2001, the DTSC notified the Regional Board that the Army appealed the order. Regional Board staff subsequently contacted DTSC staff and requested an update on the status of the order, but were told by DTSC staff that details concerning the matter were confidential. This order impacts the cleanup program, since the Army has been using most of its on-site staff resources to appeal the order.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**SACRAMENTO ADA - PCA NO. 16640**

**Progress:**

The Installation Restoration Program is generally on schedule with the Two-Year Joint CA Execution Plan. Review of the FOST continued. Land Use Covenants (LUCs), agreeable to all involved parties, were negotiated and are currently awaiting signature. The Army is currently not producing quarterly ground water monitoring reports on time, although, at the urging of the Regional Board, a one-year backlog has been reduced to six months.

**Challenges:**

The regulatory agencies continue to agree that the current pump-and-treat system is not meeting the requirements of the ROD, in that a portion of the off-site VOC plume is not being captured or treated by the existing system. The Army had disputed the fact that full plume capture must be obtained in order to be in compliance with the ROD. The Army has not provided a recommendation for a suitable option addressing an uncontained off-site VOC plume. Although they had scheduled to submit modeling results to support the selection of a remedy for the off-site VOC plume by January 2001, they still have not submitted the results. The Army continues to promise to evaluate options to capture and cleanup the off-site plume in the near future, but has not produced a firm schedule for the submittal of these evaluations in reply to repeated requests from the regulatory agencies.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

## **SHARPE DDRW – PCA NO. 16641**

### **Progress:**

The Installation Restoration Program is still slightly behind schedule with the Two-Year Joint CA Execution Plan due to funding limitations in the first half of Year 2000. The following documents were submitted to and reviewed by the Regional Board:

- Final OU-2 No Further Action Remedial Action Report
- Draft Operations and Maintenance Manual
- Final FFA Annual Progress Report, October 1999 to September 2000
- Final Interim OU1 Ground Water Remedial Action Report
- Draft Remedial Process Optimization Report

Long-term monitoring and remediation of ground water is ongoing. Sharpe continues to operate three ground water extraction/treatment systems to remediate VOC plumes in the South Balloon, Central Area, and North Balloon portions of the Depot. Submittal of monthly and quarterly monitoring reports on the wastewater and ground water treatment plants has also continued.

A Remedial Process Optimization Study was completed. The recommendations of the study, which have not been fully implemented yet, potentially provide significant cost savings while still meeting their remedial objectives. The recommendations include, but are not limited to, a reduction in the number of pumping wells and collection of VOC samples with passive diffusion samplers. It is anticipated that Sharpe will still be able to maintain hydraulic control over their plumes when the recommendation to shut down specific operating extraction wells is implemented.

### **Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has “Status” annotated.

## **CROW’S LANDING FLIGHT FACILITY - PCA NO. 16642**

### **Progress:**

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan, which was significantly revised (2/28/2001), to acknowledge the schedule delays when the Navy relocated the management of the project from their San Bruno to their San Diego office. Additional investigations have revealed high levels of several previously unknown ground water contaminants (tertiary butyl alcohol or TBA, methyl ethyl ketone or MEK, and acetone), which were not detected by previous analytical methods and have co-mingled with both of the petroleum and volatile organic compounds ground water plumes. Hexavalent chromium detections may be the result of natural occurrences in ground water at the site. The Navy conducted a time-critical interim removal action (TCRA) consisting of 1) ground water extraction from a localized area near a dry well, a suspected source area for the contaminants, and 2) off-site disposal of wastewater. The TCRA removed the following quantities: Acetone (45 lb), Gasoline (20.5 lb), MEK (7.9 lb), Benzene (3.5 lb), and TBA (3.2 lb).

**Challenges:**

The facility has still not been transferred to Stanislaus County, even though a special order to do so as soon as possible, was issued by the United States Congress.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**DIXON NRTF - PCA NO. 16643****Progress:**

The Installation Restoration Program is behind schedule with Two-Year Joint CA Execution Plan. As stated before, oversight under-expenditures are the result of Navy delays regarding the Regional Board's not approving their request for No Further Action status for all sites. There was no other significant progress at this site. The Regional Board is awaiting responses to our comments on the Record of Findings previously submitted by the Navy.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**LEMOORE NAS – NAVY- PCA NO. 16644****Progress:**

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. The Draft First Annual Ground Water Monitoring Report for Sites 5/9 and 14 has been submitted to the Regional Board and comments were provided. A scope of work for an additional investigation of potential source areas at Site 14 has been developed. Quarterly ground water monitoring continued at Sites 5/9 and 14 that will be used to evaluate plume migration. The design for the multi-phase extraction system (MPE) at Site 17 has been completed. A contractor to install the system has been selected and field work for the installation of the treatment system has begun. A report summarizing the base-wide evaluation of the beneficial uses of ground water has been completed. Regional Board staff is currently reviewing the findings of the report.

**Challenges:**

The expanded investigation of Site 14 potential source areas is requiring additional field work and causing delays. Final RODs for Sites 6 and 7 have been delayed pending review and comments of the final Ecological Scoping Assessment by the Department of Fish and Game. New RPMs at both the RWQCB and DTSC will require time to become familiar with the project history of the site.

**Success Stories:**

Significant progress has been made in final delineation of contaminant sources at Sites 5/9 and 14. For contractual purposes, the Navy combined the Phase I and Phase II Scopes of Work, which has minimized additional delays in the installation of the MPE System at Site 17.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**STOCKTON NCTS - PCA NO. 16645****Progress:**

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. Delays are primarily due to a switchover in oversight responsibilities on the part of the Navy. Navy Southwest Division in San Diego (SWDIV) has been assigned the duties of reviewing documents for technical adequacy. The Navy RPM responsibilities remain in EFA West, San Bruno.

Three USTs were closed. Regional Board staff reviewed and commented on the Draft Supplemental Environmental Baseline Survey for the Phase II property transfer. We commented on the status of drainage channels associated with parcels proposed for transfer to the Port of Stockton, and the apparent presence of contaminated sediments associated with those drainage channels. To further investigate the threat to water quality, the Navy sampled the sediments using DI-WET extraction methods to help determine the solubility of contaminants in the sediments. The Navy and the Regional Board are currently evaluating the results of the sampling to determine an appropriate course of action.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**MATHER AFB - PCA NO. 16647****Progress:**

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan. The Regional Board, acting as the lead agency for petroleum sites, reviewed the Final Closure Report for UST Sites 27, 33, 40, 41, and 42. Based on the site-specific information presented in the Closure Report, the Regional Board commented that appropriate remedial actions have been taken at Sites 27, 40, 41, and 42. Additional investigation results to complete site characterization in the vicinity of the demolished Building 3308 at Site 33 are under review. Closure letters are pending for these sites once Site 33 is deemed complete.

Based on the Draft Investigation Report previously submitted for Former UST Sites 25, 26, 30, 31 and UST 10075, Regional Board staff determined that further action was warranted at Sites

26, 30, and 31. The Final Investigation Report recommending closure of these sites is scheduled to be submitted.

The Air Force submitted the comprehensive closure reports necessary to summarize remedial actions completed at Site SD-62, Oil Water Separator at Facility 7110 and Site SD-15 as part of the overall closure process at the base. These reports summarize the remedial efforts that have taken place at these sites. The Air Force will submit several more remedial action reports as part of the site closure process.

The RPMs have reviewed further investigation data for the Mather Soils Bioremediation Facility (MSBF) (now called “Old Transportation Yard”) as part of reviewing field efforts during the BCT Meetings. The Draft Closure Report for this site is under review. The Regional Board intends to rescind WDR Order No. 95-221 to complete the MSBF closure process once closure of the ‘new’ Old Transportation Yard site is completed.

The agencies provided comments on the Draft Final Finding of Suitability to Transfer for Parcel F, Mather Golf Course (Draft FOST), and the Draft Final Supplemental Environmental Baseline Survey for Parcel F (Draft SEBS), submitted February 26, 2001.

### **Challenges:**

The major issue for the Supplemental Base-wide ROD continues to be the documentation and implementation of “Institutional Controls” at the sites that will not achieve a level of cleanup that would allow for unrestricted use. The DTSC has also requested the Air Force modify this ROD or submit a separate primary document that describes the institutional controls, including implementation, for all sites where institutional controls are required as part of the remedy in previous RODs.

In January 2001, the agencies and the Air Force initiated an alternate dispute resolution (ADR) process, in lieu of invoking a formal dispute, to resolve the outstanding issues. A number of meetings were held, and the Air Force submitted modified text, as part of the ADR process, in an effort to resolve as many issues as possible at the RPMs’ level. The modified text did not provide for resolution of a number of the core issues at the RPMs’ level. As a result, the project managers (Level One) prepared a “Joint Issues Statement” to elevate six issues to unit supervisors (Level Two) for resolution. While six specific issues were elevated, most of them fall under an overarching question in dispute: “Under what circumstances is the Air Force obligated to provide an alternative water supply when municipal supply wells are impacted?” Decisions on these issues may have immediate impact on the supply wells where Mather ground water contamination has already been detected and no alternate water supply has yet been provided by the Air Force; in particular, the Mars Way Well. The Oaken Bucket Court Well is considered the other supply well more immediately threatened by the potential migration of ground water contamination from the Mather plumes. It is anticipated that the formal dispute process will be reinstated to address any issues that remain unresolved by the remaining levels of the ADR process.

The Main Base/SAC Industrial Pump-and-Treat System will be expanded in phases to address the full extent of the on- and off-base plumes. The Remedial Action Workplan to install the



remaining Phase III extraction wells was approved by the agencies. The combination of the Phase II and III expansions continue to show significant increases in contaminant mass removal.

Plans began for a Phase IV to have the full ground water remedy in place to achieve plume control and complete capture at concentrations above cleanup levels. A technical session was held to present the initial modeling results that support the Phase IV design to the agencies. The information shared demonstrated that Phase IV is planned to achieve a considerable degree of coverage to control a majority of the off-base contamination greater than cleanup levels. Extraction wells will be located to augment, but not necessarily duplicate, capture achieved by supply wells that already have operating wellhead treatment systems.

Three ground water treatment systems (i.e., Main Base/SAC, Site 7, and AC&W) and sixteen SVE or Bioventing Units continue to remove contamination from both the soil and ground water.

#### **Success Stories:**

The FOST and SEBS were finalized June 5, 2001. The property was transferred by deed conveyance to the County of Sacramento. The County of Sacramento plans to continue to operate the subject property as a golf course. Access remains available for the Air Force to close and properly destroy two monitoring wells located on the property.

#### **Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

### **MCCLELLAN AIR FORCE BASE - PCA NO. 16648**

#### **Progress:**

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan. The IRP has made major revisions to the FFA. Due to lack of funding, the fast track Non-VOC soils cleanup effort to facilitate reuse (utilizing EE/CA soil removal actions) has been abandoned. Revisions to the FFA document schedule were necessary and were completed in January 2001. The revised FFA schedule will mark the return to a more traditional CERCLA process for completing FS and ROD documents. Most of the sites that were planned for EE/CA removal actions will now be incorporated into one or more of seven Non-VOC FSs and RODs now proposed to complete the program. The Draft Base-wide Feasibility Study Report will be revised and shelved as a reference document to support preparation of seven parcel-specific or strategic sites FSs and RODs.

A Non-Time-Critical Removal Action for Site PRL-33 has been completed. This removal action will allow transfer of this high priority reuse site. The Removal Action Workplan for the CS-10 Time-Critical Removal Action is completed and implementation will begin in early FY01-02. This time-critical action is necessary to address radiological concerns following the discovery of low-level plutonium and radium wastes during a limited investigation of drums buried at this confirmed site. Up to 1,000 drums may be buried at CS-10. The cost of the CS-10 Removal Action is estimated at approximately \$38 million.

Revised versions of RI reports (RICS) for OUs A, B, B1, C, and C1 have been submitted after incorporation of the results from the data gap efforts 1, 2, 3, 4, and 5. Final RI reports have been completed for OUs B1 and C1 since January 2001.

Final Site-Specific Supplemental Environmental Baseline Surveys (SSSEBS) and Findings of Suitability to Lease (FOSL) were completed for the Group 6, 7, and 8 facilities. Regional Board staff has commented on the SSSEBS document for the off-site property at the Sacramento River Dock. The upcoming Final Sacramento River Dock document will complete the SSSEBS and FOSL process at McClellan on schedule. The Final SSSEBS and FOSL documents allow leasing of facilities covered in those documents by the County of Sacramento.

### **Challenges:**

The primary challenge that continues to face the McClellan Cleanup Team: Resolve the VOC Proposed Plan dispute issues for ground water and soil cleanups. Currently, the State is seeking substantive compliance with several State ARARs for cleanup. These issues are delaying implementation of the VOC ROD and completion of the remedial systems to handle the extensive ground water contamination. The Draft Final VOC Proposed Plan was issued by the Air Force and is being disputed by the State. The Alternative Dispute Resolution process was implemented in an effort to resolve the VOC issues. Through the ADR process, the parties were able to resolve the issues involving VOC soil cleanup. However, the ground water issues were not resolved and are proceeding to formal dispute. The remaining issues are primarily related to the cleanup standards for VOCs in ground water. The parties have also agreed to proceed with the construction of the Phase III ground water remedy under the terms of the 1995 VOC Interim ROD. This agreement will allow the Air Force to make progress with the ground water cleanup program, fill additional data gaps, and provide additional plume capture. The Final VOC Proposed Plan and ROD will be issued pending the outcome of the formal dispute.

### **Success Stories:**

- Final Completion of SSSEBSs and FOSLs for the Group 6, 7, and 8 facilities has allowed Sacramento County to lease the buildings for occupancy; this completes the SSSEBS and FOSL process at McClellan on schedule and represents a major milestone;
- Final designs and workplans have been completed for two new SVE systems;
- Fourteen operating SVE systems have removed over one million pounds of contamination to date;
- Concurrence with no further action (closure) status for 2 UST sites (2 USTs) and completion of 2 Site Investigation Workplans for USTs (4 USTs);
- Review and acceptance of four Radiological Final Status Survey Reports for four buildings that release these buildings for unrestricted reuse;
- Passive diffusion samplers are being used starting in 2001 (in over approximately 400 ground water monitoring wells) and will result in considerable cost savings for the VOC monitoring program;
- Review and acceptance of a workplan for a soil treatability pilot study (i.e., Ex-Situ Wet Oxidation) to demonstrate the feasibility of this technology to meet treatment cleanup goals. The results of this soil treatment pilot study will have an impact on the selection of alternatives for the upcoming seven Non-VOC FS and ROD documents; and

- Final design and workplans has been completed for the soils staging pile facility where non-VOC contaminated soils will be staged and treated.

### **Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

## **CASTLE AIR FORCE BASE - PCA NO. 16649**

### **Progress:**

The Installation Restoration Program is generally on schedule with the Two-Year Joint CA Execution Plan. The Draft SCOU 1 ROD was submitted and agency comments, excepting comments related to Institutional Controls (discussed below), have been addressed. The Draft Landfill Closure Reports for the two landfills closed with waste-in-place have been submitted for regulatory review. The draft Focused Feasibility Study for FTA-1 has also been submitted by the Air Force to the regulatory agencies for review.

One large SVE system is currently under construction (B51/B54 system) and designs are nearly complete for three additional systems (B1350, B1752 and DA5). A small ground water extraction/treatment system has been constructed in the Castle Gardens Area to help remediate a plume segment that has moved beyond the capture zone of the pump- and-treat systems located on the main base. Plans for further delineation of the off-base plume have been finalized.

### **Challenges:**

The Air Force remains committed to achieving "Last Remedy in Place" (LRP) by 2003. Achieving this goal will require close cooperation among the BCT members and adherence to a schedule with little margin for delay.

On a nationwide scale, the Department of Defense is unwilling to include post-ROD documents as deliverables in the revised FFA schedule. In particular, where a ROD calls for Institutional Controls (ICs) that restrict future use of property, the USEPA desires that Land Use Control Plans (LUCPs) be subject to regulatory approval and, if not implemented, enforceable under an FFA. This conflict may preclude the BCT's ability to finalize the SCOU 1 ROD as ICs are a necessary component of the remedy for the two landfills that were closed with wastes in-place.

Low levels of TCE (1.1 ug/l) were detected in a nearby Atwater municipal water supply well (AM-18). The Air Force is investigating these new detections, which may signal a previously unsuspected plume migration.

### **Success Stories:**

An agreement has been reached regarding the temporary shutdown of the OU-1 treatment plant in order to reduce electricity usage during the current energy crisis in California. The plant will be placed back on-line in October, after the anticipated electrical high-demand summer season. The Air Force is monitoring the ground water plume to help insure that there are no significant effects on plume migration from the shutdown of OU-1.

The removal action at Building 551 is now completed. A total of 660 cubic yards of contaminated soil was excavated from the area. A portable, solar-powered ground water extraction/treatment system has been constructed and is now extracting and treating ground water from a remote on-base plume segment.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**BEALE AFB - PCA NO. 16650**

**Progress:**

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan. The following reports, considered major Execution Plan accomplishments, were reviewed and commented on:

- Site 1 Field Summary Report. The off-site extent of VOCs near a number of domestic supply wells has not been identified. The Air Force completed construction of wellhead treatment units on three domestic supply wells and continues to monitor water quality in other domestic supply wells in the Site 1 (off-site) Area.
- Semiannual Ground Water Monitoring Report. Verbal comments focused on evaluating if well screen submergence of many monitoring wells prevents collection of reliable analytical data. As a result of these verbal comments, the next report will evaluate if rising water elevations require construction of new monitoring wells and also if new vadose zone source areas have emerged.
- The Final Dynamic Field Sampling Plan for the AAFES Service Station USTs. An approach considered unique for providing real time soil gas and ground water analytical data to facilitate complete plume definition.
- Daily field progress reports for interim remedial activities at Site 17, which consisted of realigning Best Slough and constructing a slurry wall around a DNAPL source area. This start-up data (daily progress reports) for the ground water extraction system (extraction trenches and wells inside a slurry wall) reported on the ability of this system to maintain an inward gradient inside the slurry wall. The daily progress reports also documented water quality data in Best Slough and provided updates on planting activities inside the slurry wall area and adjacent to the new channel. Planting activities were successful in minimizing erosion and degradation of water quality in Best Slough. The extraction system inside the slurry wall has maintained an inward gradient; thus reducing potential migration of DNAPLs.
- The Long-Term Operation and Maintenance Reports (4th quarter 2000 and 1st quarter 2001) for the SVE and Bioventing Sites.

In addition, the Regional Board attended four meetings with the Remedial Project Managers over various topics; attended several meetings to discuss field investigations at Site 13, field activities at Site 17, and field investigations for the UST program; and reviewed public participation factsheets and newsletters associated with activities at Site 17.

**Challenges:**

Funding for the facility remains a challenge. Other challenges include the review of a Field Investigation Report for Ground Water Operable Unit A and B reporting field work conducted in the Summer of 1999. The challenge stems from the Air Force contractors simultaneously submitting a Workplan for further investigation to be performed this summer. This bottleneck occurred because the base was given insufficient funds in the last fiscal year to complete the Field Investigation Report. Submittal of multiple documents that are inter-related with one another (and by different contractors) is inefficient, and can ultimately increase cleanup costs if (in this case) the followup investigation is incomplete and does not address data gaps that are necessary to move forward to the Feasibility Study for these sites.

**Success Stories:**

Two Soil Vapor Extraction Systems have been decommissioned (Site 10 South and Site 29). Both SVE systems underwent rebound sampling and it was determined only low levels of VOCs remained in the vadose zone. However, additional confirmation sampling near the water table confirmed that concentrations of VOCs remained high but that further optimization of the SVE system could not feasibly address this contamination. Both Site 10 North and Site 29 will be evaluated with respect to other remedial alternatives (such as Dual Phase Extraction) during the Feasibility Study (scheduled 2003).

Nine USTs (mostly former heating oil tanks) were closed as part of the Site 22 remediation. Confirmation sampling was conducted after soil excavation and it was determined that these sites do not pose a threat to ground water. Site 22 consists of 60 USTs that remained unclosed after over 900 USTs were removed and closed during the early to mid-1990's.

**Execution Plan Status:**

See DTSC Semiannual Performance Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**TRACY DDRW – PCA NO. 16651**

**Progress:**

The Installation Restoration Program is still behind schedule with the Two-Year Joint CA Execution Plan, due to earlier funding limitations. The following key documents were submitted to and reviewed by the Regional Board:

- Draft ROD Amendment
- Draft OU1 Ground Water: Interim Remedial Action Report
- Draft Small Excavations Remedial Action Report

- Final DESERTS 72 No Further Response Action Planned Report
- Revised Draft Final Explanation of Significant Differences
- Final Well Monitoring Program, 2000 Annual Monitoring Report
- Draft Remedial Process Optimization Report
- Soil Vapor Extraction Site Consolidated Proveout Reports

The Draft ROD Amendment modifies the 1998 Site-wide ROD to include site DESERTS 72, a change in disposal options for treated ground water, and recent risk management decisions for SWMU 4. DESERTS 72 was discovered after the 1998 ROD was signed. The Site-wide ROD did not include overland flow or discharge to surface water as disposal options for treated ground water. The existing infiltration galleries have proven to be inadequate for discharging all of Tracy's treated ground water. Post-Rod studies of SWMU 4 have shown the initial ecological risk evaluation was too conservative and removal of contaminated sediments is not necessary.

Long-term monitoring and remediation of ground water is ongoing. Tracy continues to operate two ground water extraction/treatment systems to remediate their VOC plume. Submittal of monthly and quarterly monitoring reports on the wastewater and ground water treatment plants has also continued.

SVE operations at three VOC source areas began and are expected to continue for a minimum of 12 months. Implementation of this remedial action was delayed for a year due to funding limitations.

A Remedial Process Optimization Study was completed. The recommendations of the study have not been fully implemented yet, but may provide significant cost savings while still meeting their remedial objectives. The recommendations include, but are not limited to, a reduction in the number of pumping wells, collection of VOC samples with passive diffusion samplers, and modification of the ground water treatment systems to reduce scaling problems.

### **Challenges:**

Management of treated ground water continues to be a significant concern because existing infiltration galleries are not adequate for continuous discharge near design capacity. The portion of the TCE plume exceeding the ACL has migrated more than 2,800 feet beyond the furthest downgradient extraction wells and higher extraction rates are needed to control the plume. The ongoing overland flow pilot test has temporarily provided additional capacity for treated ground water and may provide a solution to long-term disposal problems. However, overland flow disposal requires more maintenance than anticipated and it is unclear at this time whether the discharge of treated ground water will adversely impact soils and shallow ground water.

### **Success Stories:**

Installation of the permanent off-site monitoring points is expected to occur in the next reporting period. Off-site monitoring wells are needed to define the leading edge of Tracy's VOC plume. This action had been held up for several years by real estate access agreements that were finally completed. Tracy recently collected ground water "grab" samples to define the leading edge of their plume and the results will be presented in an upcoming report in Year 2001.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**DAVIS TRANSMITTER - PCA NO. 16652****Progress:**

The Installation Restoration Program is mainly on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are currently low but this was anticipated. This is a relatively small site with sporadic report submittals. It is anticipated that most of the budget for this FY was to be used for the review and comment of the ROD, which has been delayed. The final ROD is scheduled for completion in June 2002.

**Challenges:**

The following challenge was previously reported and is still relevant. The primary challenge is the development of final cleanup goals for the site. The resolution of this issue is dependent on the outcome of the VOC Proposed Plan Dispute (Alternative Dispute Resolution) process currently underway at McClellan AFB.

**Success Stories:**

The Final UST Site Investigation Workplan for Building 4710 (3 USTs) was issued and approved by the Regional Board.

The Draft Final SSSEBS and FOSL were completed and approved by the regulatory agencies.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**RIO VISTA ARMY RESERVE TRAINING AREA – PCA NO. 16950****Progress:**

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan. The Army's consultant (ARCADIS Geraghty & Miller) continues to maintain an accelerated pace for the site investigation as part of an Army Pilot Program on the privatization of site cleanups. Activities performed included supplemental remedial investigations at Areas 6, 7 and 9. The Army completed a Remedial Investigation Report to support the previous removal actions. The BCT then decided that a Feasibility Study would delay the process, and chose to document all subsequent investigations and actions in a Supplemental Remedial Investigation Report. The Army will issue a No Further Action Remedial Action Plan.

**Challenges:**

The site cleanup is on a fast-track approach and continues to be a challenge to both the Army and the regulatory agencies to review the dozens of documents required to provide concurrence with

remedial decisions necessary for the property transfer to the City of Rio Vista. The Water Quality Assessment Report, which is forthcoming from the Army, may identify hotspots for metals in soils that will need to be addressed in removal actions before closure.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**TITAN MISSILE SITE 1-A, (LINCOLN) – PCA NO. 16951**

**Progress:**

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures were higher than anticipated due to additional staff time required to identify substantive requirements for an NPDES permit that was required for an off-site discharge of treated ground water. Additional staff time was also spent discussing these requirements with the discharger. Internal USACE funding issues have caused the delays in the project. The USACE began operation of a pilot study ground water extraction/treatment system for the off-site TCE plume in June as part of the FS to determine the final remedy for the plume. In June, the Regional Board issued an NPDES permit to the USACE for the operation of the ground water treatment system, and the discharge of treated effluent off-site.

**Challenges:**

Data submitted as part of the Report of Waste Discharge was insufficient to determine if a reasonable potential to exceed water quality objectives existed for some of the constituents in the treated effluent from the ground water extraction/treatment system. As a condition of the NPDES permit, the USACE is required to conduct a study to help determine if the discharge of the treated water poses an unacceptable threat to water quality. The permit may be reopened, and additional effluent limits added to the permit, based on the results of the study.

**Execution Plan Status:**

See attachments to this report.

**OLD HAMMER FIELD - FUDS – PCA NO. 16953**

**Progress:**

A Two-Year Joint CA Execution Plan has not been completed thus no true gauge on progress exists. The OHF Steering Committee (Committee) [excluding the USACE] and the RWQCB have agreed to an Execution Plan schedule, and are awaiting the results of Plan schedule negotiations between the USACE and the rest of the Committee. Supplemental soil sampling at Area 4 (radar installation and fire training pits) has been completed. The USTs at Area 4 have been closed. Regional Board staff and the DTSC approved the workplan for the downgradient investigation.



The USACE has begun the process of Site Investigation of Area 13-1 with completion of interviews with the primary eyewitness of past operations. The USACE is having some difficulty in gaining Right-of-Entry agreements to conduct the physical investigation.

The DTSC and RWQCB presented the Committee with proposed health-protective water quality standards as trigger levels for a water supply contingency program, and proposed criteria for implementing the program. The Committee is reviewing these proposals.

One monitoring, one soil investigation, and one hydraulic capture report were received and commented on.

**Challenges:**

The Committee proposed reducing the frequency of sampling selected ground water monitoring wells, yet the significant and large areal affect of Well 70 pumping on vertical and horizontal ground water begs for the need to re-evaluate the adequacy of the monitoring network, especially if ground water modeling is used to support the FS.

The Bakman Water Company has filed a Notice of Violation – Proposition 65 and Intent to Sue – Resource Conservation and Recovery Act - for degradation of its water supply by the continued migration of the OHF VOC ground water plume.

Negotiations between the Bakman Water Company and the Committee continue regarding the completion of a Draft License and Wellhead Treatment Agreement so that treatment units on two of Bakman's wells can be constructed, along with gaining access to well sites for installation of additional monitoring wells.

**Execution Plan Status:**

The USACE did not participate in the completion of an Execution Plan.

**TITAN MISSILE SITE 1-C, (CHICO) – PCA NO. 16954**

**Progress:**

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. The USACE has not completed the final phases of the cleanup, due to delays in acquiring access to the site, which is still in escrow. Most of the site closure activities have been conducted, with the closure of several USTs and the abandonment of several large water supply wells being the only remaining tasks to be completed. Program funding cuts within the USACE have threatened to delay the closure until 2005 or later.

**Challenges:**

The Regional Board has met with the USACE to explore creative methods for providing continued funding, in order to close the site in FY 2002. Army headquarters have taken the stance that a reduction of risk is sufficient, while the State continues to request closure for the site. Talks with the new owner for site access are ongoing.

**Execution Plan Status:**

See attachments to this report.

**TITAN MISSILE SITE 1-B, (SUTTER BUTTES) – PCA NO. 16955****Progress:**

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. Internal USACE funding delays threaten to delay closure until 2005 or later. The USACE completed the final phases of the cleanup by abandoning the remaining underground storage tanks (USTs) in place and decommissioning the underground water supply wells. Due to high levels of lead in water standing in Silo 1, the USACE may need to conduct additional ground water monitoring, investigate the lead source, and assess the feasibility of source removal to reach the final cleanup levels protective of human and ecological health and water quality.

**Success Stories:**

The Regional Board provided a letter of concurrence for the UST closures and underground water supply wells abandonment in May 2001.

**Execution Plan Status:**

See attachments to this report.

**DQ UNIVERSITY – PCA NO. 16959****Progress:**

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan by six months. Oversight expenditures are currently low but this was anticipated. This is a relatively small site with sporadic report submittals. It is anticipated that, at a minimum, long-term monitoring will be required at this site based on the results of the site investigation. The USACE conducted additional investigations this year. Results, to date, indicate the presence of a small petroleum hydrocarbon plume in the soil and ground water and a small, low concentration chlorinated solvent plume in the ground water. The USACE consulted with the Regional Board and installed additional ground water monitoring wells, in order to better characterize the groundwater plume(s).

**Execution Plan Status:**

See attachments to this report.

**LAHONTAN REGIONAL WATER QUALITY CONTROL BOARD  
DEPARTMENT OF DEFENSE (DoD) PROGRAM  
SEMIANNUAL REPORT  
(January 1 – June 30, 2001)**

**SIERRA ARMY DEPOT (MAIN BASE) – PCA NO. 16655**

**Progress:**

The overall restoration program is on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are lower than projected because the site budget was overestimated.

Review and comments on the following documents were provided by Regional Board staff:

- Draft Final Abandoned Landfill and Southern Sites Area, 1999 Follow-up Remedial Investigation.
- Draft Final Upper Burning Ground Follow-on Remedial Investigation.

The Building 210 plume, along the K Line Road, with TCE concentrations above 1,000 ppb, is now greater than 1,500-feet in length. This was confirmed by additional drilling and direct push investigation which also confirmed what was originally thought to be two TCE plumes is just one plume. The ground water extraction system is pumping approximately 110 gallons per minute.

The Building 210 Bioremediation Pilot Study, using hydrogen-releasing compound (HRC), encountered preferential ground water flow pathways in an ancient gravel channel. The curving channel negated the effectiveness of the monitoring network. No TCE degradation was observed.

**Success Stories:**

The DRMO SVE/BV System at the Former DRMO Trench Area operated for approximately 4,200 hours removing 3,600 pounds of TCE. The system is operating at 90 percent of the time.

The Upper Burning Ground Investigation did not detect impacts to ground water.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**FORT IRWIN – PCA NO. 16656**

**Progress:**

The overall restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Less than half of the proposed reports listed for submittal in FY 00/01 have been received by the Regional Board. The following reports were received: FTIR-27 & 28 Draft Verification

Sampling; FTIR-35 – RAP Final; FTIR-33 – RAP Final; and FTIR-36 – RAP Final. The following reports are ongoing: FTIR-02 & 04 – Closure Certification Report; FTIR-11 Ground Water Investigation; FTIR 07 & 08 RTC; FTIR-32A & 39 RTC; FTIR-19 – RAP Final; FTIR-002 & 004 Final O&M Plan; and FTIR-38 & 40 RI/FS Draft, Vol. 1, 2. Additionally, Regional Board staff held an FTIR-11 field site inspection/meeting in May and an IAP meeting in June.

A considerable amount of Regional Board staff's available resources were spent coming to an agreement on the FTIR-11 Ground Water Investigation. However, consensus was reached between Fort Irwin, the USACE, DTSC, and the Regional Board concerning the approach to take to investigate the site contamination at FTIR-11.

#### **Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

### **BARSTOW MCLB – PCA NO. 16657**

#### **Progress:**

The overall restoration program is on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are lower than projected because the site budget was overestimated. The Navy began constructing the Phase 2 Pilot Test Air Sparging/Soil Vapor Extraction (AS/SVE) System at CAOC 6 (Nebo) and completed construction of the landfill cover for CAOC 35 (Yermo). Ground water sampling continued with a special effort to evaluate vinyl chloride downstream of the North Nebo plume. The MCLB will locate all wells (not just IRP wells) that are on and adjacent to the MCLB using a global positioning system. The MCLB is proposing to construct two replacement ground water extraction wells for the OU-1 extraction system to address dropping ground water levels near the Yermo Annex.

Regional Board staff conducted a site tour of both the Nebo and Yermo Annex in February and attended an Installation Restoration Program RPM meeting at the MCLB in March. During the meeting, there was a detailed discussion of the Revised Draft Extended RCRA Facility Assessment Report. Regional Board and MCLB staff met on May 9 to discuss underground storage tanks. Additionally, the RPMs held conference calls about every two weeks to discuss progress.

The Navy submitted and the Regional Board reviewed the following documents:

- Pilot Test Workplan, Phase 2, AS/SVE Pilot Test, CAOC 6 (Construction Installation in Progress) (2/1/01 Draft and 5/25/01 Draft Final)
- Recommendations for Additional Sampling at Nebo (an expanded suite of wells sampled for vinyl chloride to determine migration from North Nebo plume) (3/21/01)
- Revised Draft Extended RCRA Facility Assessment (additional investigation and remediation recommended at some sites) (3/21/01)
- Annual Ground Water Monitoring Report for 2000 (4/16/01)
- Draft Extraction Well Installation Workplan (two wells proposed) (4/30/01)

- Landfill CAOC 35 Construction Completion Report (5/17/01)
- Landfill CAOC 7 Construction Completion Report (requested post-closure monitoring to continue).
- Draft Installation Report, Monitoring Well Replacement (6/7/01)

The OU-1 pump-and-treat system is off-line for maintenance while the Navy evaluates the effect of recently discovered MTBE-contaminated ground water, which the MCLB suspects (but has not yet confirmed) is from an off-site source. Workplans are needed to address remedial action identified in the Draft Revised RFA.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**BRIDGEPORT MCMWTC – PCA NO. 16658**

**Progress:**

The overall restoration program is generally on schedule with the Two-Year Joint CA Execution Plan. Regional Board staff reviewed the Site Assessment for Underground Storage Tanks 3007E and 7036E and provided no comments. The Regional Board also reviewed the Draft Closure/Post-closure Maintenance Plan for Sites 3 and 7 and provided no comments. Quarterly monitoring and operations reports continue to be submitted and reviewed on a quarterly basis. The approved remedial action for the Pickel Meadow Landfill is scheduled to be implemented in mid-2001.

**Execution Plan Status:**

See the attachment to this report.

**CHINA LAKE NAVAL WARFARE CENTER – PCA NO. 16659**

**Progress:**

The overall restoration program is on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are lower than projected because the site budget was overestimated. After several years of inactivity, UST sites are again being cleaned up in a timely manner. Due to the appointment of new Navy, Regional Board, and DTSC Remedial Project Managers (RPMs), cleanup activities have been implemented and are ongoing at the top four prioritized UST sites. The NEX Gas Station currently has a soil vapor extraction system on line. At the Public Works Gas Station, an average of 575 pounds of petroleum hydrocarbons are being removed per quarter. Site assessments are ongoing at the Propulsion Laboratory Gas Station and the Randsburg Wash Gas Station.

**Challenges:**

The RPMs are negotiating a Federal Facility Site Remediation Agreement (FFSRA); however, it will not be completed until FY02. The RPMs have operated for many years without an

overarching agreement and projects have stalled due to various conflicts. Currently, RPMs are operating on the “One Voice” premise, which helps to avoid duplication of effort and streamlines communication.

### **Success Stories:**

The Draft Base-Wide Hydrogeologic Characterization (BHC) is complete. The primary purpose of the BHC is to delineate the hydrogeology in the three major ground water basins it occupies: the Indian Wells Valley, the Salt Wells Valley, and the Randsburg Wash Area. Ground water flow directions and rates of flow in different areas of the base are now characterized and reliable predictions can now be made about the direction and transport rate of various contaminants of concern in ground water beneath the base.

The area south of the base and north of the Ridgecrest drinking water supply wells is part of the area characterized. Careful study has shown that the drinking water aquifer serving the City of Ridgecrest is not currently impacted or threatened by contaminants present in ground water beneath the base.

### **Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

## **EDWARDS AIR FORCE BASE – PCA NO. 16660**

### **Progress:**

The overall restoration program is on schedule with the Two-Year Joint CA Execution Plan.

### **Challenges:**

Several chemicals have appeared in ground water that may complicate cleanups. Presently, the ground water impacts are not in areas where ground water is used for drinking. The chemicals of concern (COC) are N-nitroso dimethylamine (NDMA), chromium 6 (Cr<sup>+6</sup>), and perchlorate.

None of these chemicals has a Maximum Contaminant Level (MCL) set by the State of California or USEPA. NDMA has a California State Action Level set at 18 parts per billion (ppb). Total Chromium has an MCL of 50 ppb; but no limit is set for Cr<sup>+6</sup>. Perchlorate has no MCL listed but it has a California State Action Level of 18 ppb. Each of these chemicals is under close observation and tracking by regularly scheduled sampling and analysis. Ground water drinking sources are sampled monthly and reported. Ground water is also sampled on a regular schedule at each Installation Restoration Program (IRP) site where these chemicals have previously occurred.

The challenge is the potentially low MCLs that may be set in the near future for each COC. These COCs are difficult and very expensive to remove from ground water. Meanwhile, EAFB is monitoring and exploring innovative methods of ground water cleanup that may be utilized to control and remove the COCs from ground water in a cost efficient manner.

**Success Stories:**

- Installation of a vapor extraction and GAC treatment system at Site 33, a petroleum hydrocarbon and NDMA-contaminated site.
- Complete eradication of TCE/PCE by injection of potassium permanganate into ground water resulting in no volatile organic chemicals or daughter products being detected after the pilot test.
- Remote detection of TNT detonation sites by spraying the site with native bacteria genetically enhanced to be luminescent under a specific wavelength of laser light. This method will be useful to remotely locate minefields left behind in war zones.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**GEORGE AIR FORCE BASE – PCA NO. 16661****Progress:**

The overall restoration program is behind schedule with the Two-Year Joint CA Execution Plan. Regional Board staff attended RPM meetings and Peer Review meetings organized by the AFBCA/AFCEE staff. The Air Force is currently conducting a Data Gaps Investigation and is preparing an OU-2 Feasibility Study. The Air Force recently completed a remediation effort at the Current Skeet Range. Regional Board staff received and commented on the following documents:

- Draft Water Quality Protection Standards, dated October 2000
- Draft Long-Term Maintenance and Monitoring Plan, dated December 2000
- Draft Soil Vapor Extraction Pilot Study Report, dated December 2000
- Draft 5-Year Record of Decision (ROD) Review, dated January 2001
- Draft Base-Wide Ground Water Monitoring Report, October 2000 Sampling Event, dated February 2001
- Draft Well Assessment and Redevelopment Plan, dated April 2001
- Draft Explanation of Significant Difference, Site OT-51, not dated
- Numerous SEBS/FOST documents.

The Peer Review Committee agreed to fund the dieldrin investigation, which should define the lateral and vertical extent of contamination and identify potential source areas.

**Challenges:**

The Peer Review Committee chose not to fund the Alternate Discharge Point Project for the current pump-and-treat TCE Remediation Project. This decision could affect the Air Force's ability to comply with the OU-1 ROD. However, the Air Force is updating the current conceptual site model for OU-1. When completed, the updated model may address the Alternate Discharge Point concerns.

The Air Force recently allowed the City of Victorville to line a drainage ditch, located near the eastern base perimeter, with concrete rubble, large (>5-foot) blocks of concrete, and other debris into an ephemeral stream channel. This constitutes a discharge of waste into a stream channel. Regional Board staff are working with the Air Force and the City of Victorville to remedy this situation.

**Execution Plan Status:**

See the attachment to this report.

**AIR FORCE PLANT #42 – PCA NO. 16662**

**Progress:**

The overall restoration program is on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are greater than expected because the site budget was under-estimated. Regional Board staff reviewed and commented on the following documents:

- Interim Post-Removal Completion Report for Site 27
- Monitoring Well Installation and Ground Water Sampling at Site 29
- Final Field Investigation Results and Proposed Site Cleanup Activities for Area of Concern 1
- Draft Workplan for TCE Source Area Investigation at Plant Site 1
- Final Workplan for TCE Source Area Investigation at Plant Site 1
- Background Metals Evaluation for Operable Units 1, 2, 3, 4, & 5

The Air Force has nearly completed the last of the field work necessary to prepare a combined, Site-wide Remedial Investigation/Feasibility Study covering all five operable units. Regional Board staff also attended Environmental Restoration Advisory Board Meetings on March 15 and June 26.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**BARSTOW-DAGGETT AIRPORT – PCA NO. 16961**

**Progress:**

The overall restoration program is on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are lower than projected because the site budget was overestimated.

The Regional Board reviewed and commented on the Barstow-Daggett Airport Field Investigation Report, Site J09CA021700. The report describes investigation results and proposes the following:

- Additional sampling to delineate the extent of soil contamination at the Gas Station and FAA Building,



- UXO clearance survey & field screening to determine if additional soil sampling is needed at Waste Disposal Site “A” and Waste Disposal Site “B,” and
- No Further Action at Barracks West and Former Radio Station.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**SIERRA ARMY DEPOT (HERLONG & HONEY LAKE PARCELS) – PCA NO. 16963**

**Progress:**

There are no significant water quality concerns and the Regional Board has deferred oversight to the DTSC.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**INYOKERN AIRFIELD – PCA NO. 16965**

**Progress:**

No activities occurred at the site. The USACE considers this a low priority site.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**COLORADO RIVER BASIN REGIONAL WATER QUALITY CONTROL BOARD  
DEPARTMENT OF DEFENSE (DoD) PROGRAM  
SEMIANNUAL REPORT  
(January 1 -June 30, 2001)**

**EL CENTRO NAF – PCA NO. 16664**

**Progress:**

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are below projected levels due to the RPM staff vacancy at the Regional Board which delayed some work activities. Work at IR sites continues to proceed and progress has been made toward the protection of ground and surface waters. The majority of work completed focused on the removal and treatment of contaminated ground water at IR Site 7, Abandoned Fuel Farm. Accomplishments are summarized below:

- **IR Site 7 (Abandoned Fuel Farm), Petroleum Ground Water Plume:** The vacuum-enhanced pumping (VEP) system was installed late last year and has been operational since November 8, 2000. Other than for routine maintenance, the system has been running nearly continuously. As of June 22, ~32,470 pounds of contaminants have been removed from the soil and ground water. The system is comprised of 132 wells, 20 of which can be operated simultaneously at any given time. Currently, the 20 operational wells are situated over the “hottest” spots of the plume, those areas with the highest concentration of contaminants. A study is being done to investigate the extent of the cleanup and area of influence of these 20 wells over the whole area of the plume. This VEP system is expected to continue in operation, pending funding, until sometime in 2002. Significant submittals reviewed and commented on include:
  - **Progress Monitoring Report- December 2000 through March 2001:** Summarizes the field activities and results of ground water remediation at Site 7.
  - **Monthly Monitoring Reports:** In accordance with NPDES Permit CA7000012, WDR Order No. 00-093, monthly monitoring reports detailing COC removal, daily flow, and other pertinent information for the months of January through June of 2001.
  - **Technical Memorandum Ground Water Sampling in Support of Remediation Activities at IR Site 7:** Results of ground water sampling and investigation of remediation activities.
- **IR Site 1 (Magazine Road Landfill):** The semiannual and annual monitoring reports were received. These reports were combined into one commentary. There were several instances of COCs detected at various wells surrounding the site. Further investigation into the site is needed to determine the nature of these detections, whether they are isolated instances or constitute a release, and whether or not they can be attributed to Site 7, which is immediately upgradient of Site 1. As a result of the decreased irrigation of Field J to the south of Site 1,

the ground water elevation has dropped, causing a number of ground water monitoring wells to go dry.

- **IR Site 12 (Open Burn Pit):** A Final Workplan for Soil Removal and Disposal was submitted. Remedial activities include removal of contaminated soil from the site and disposal at an appropriate landfill, followed by confirmation sampling. Work should be completed and a request for closure of the site is expected at any time.
- **IR Site 17 (Fire Fighting Training Area):** A Final Workplan for Soil Removal and Disposal was submitted. Remedial activities include removal of contaminated soil from the site and disposal at an appropriate landfill, followed by confirmation sampling. Work should be completed and a request for closure of the site is expected at any time.
- **IR Site 2 (Patrol Road Landfill):** Semiannual Ground Water Monitoring Report was submitted. Ground water monitoring is being conducted at Site 2 to detect potential landfill releases. Further characterization of the site is needed.
- **IR Site 10 (Sewage Stabilization Ponds):** Semiannual Ground Water Monitoring Report was submitted. Ground water monitoring is being conducted at the site to assess potential risks to the environment from the leaching of surface contaminants to ground water. Further characterization of the site may be needed.
- **UST Sites:** Various remedial activities and ground water monitoring are in progress. Semiannual Ground Water Monitoring Report for Petroleum-Only Sites was received.

#### **Challenges:**

Due in part to a changeover of personnel at Bechtel National, Inc. a challenge has occurred with respect to Site 1. A dual Annual/Semiannual Report was submitted that was deficient in several areas and poorly assembled. Additionally, questions remain about the characterization of Site 1, since it is so close to the Site 7 plume. New monitoring wells may need to be installed and incorporated into the Waste Discharge Requirements.

#### **Success Stories:**

The overall accomplishments of NAF El Centro continue to reflect the accelerated rate with which the military has addressed environmental concerns, the cooperative effort the military has established with regulatory agencies, and resourcefulness in achieving effective cleanups with minimal disruption to essential military activities. NAF El Centro has made significant advances toward the protection of human health and the environment, as evidenced by the fact that the base has won the CNO Environmental Award for two consecutive years.

#### **Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

## **TWENTYNINE PALMS MCAGCC - PCA NO. 16665**

### **Progress:**

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution plan. Oversight expenditures were below projected levels due to delays in scheduled work and report submittals. Work completed, although minimal, is summarized below:

- **UST Site 1077:** A proposal to implement a test soil vapor extraction (SVE) system to remove contamination was approved.
- **IR Site 5 (Drum Storage Area #2):** A proposal to excavate and remediate contaminated soil at an on-site bioremediation facility was approved, however, this plan is now on hold and may be abandoned altogether.
- **IR Site 6 (Former Wastewater Treatment Facility):** A report/workplan, which detailed the results of PCB testing at Site 6 was reviewed. Further sampling is needed to fully characterize the impacted area. No workplan on addressing the present contamination has been submitted.

### **Challenges:**

The slow rate at which the military is addressing remedial issues at sites requiring further action continues to be a major concern. The public health issues regarding the PCB release at IR Site 6 continue to delay remedial efforts at other IR sites. There has been little progress in investigating and addressing the high metal concentrations observed in the ground water, a situation hindering further cleanups and closures. A base-wide background study is needed to further study and evaluate this issue. SWDIV is now leading cleanup activities at MCAGCC. Staff vacancies have contributed to scheduled work delays.

### **Execution Plan Status:**

See attachments to this report.

## **SALTON SEA NTB - PCA NO. 16666**

### **Progress:**

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan. All water quality issues have been remediated. Oversight expenditures are below projected levels because of project completion. The only document received was a Status Report on implementation of the UXO Decision Document. The Status Report addresses UXOs still remaining on the property. The land is currently under the jurisdiction of the BLM.

### **Execution Plan Status:**

See attachments to this report.

**SANTA ANA REGIONAL WATER QUALITY CONTROL BOARD  
DEPARTMENT OF DEFENSE (DoD) PROGRAM  
SEMIANNUAL REPORT  
(January 1 – June 30, 2001)**

**EL TORO MCAS - PCA NO. 16668**

**Progress:**

The Navy is on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are below the anticipated and budgeted level due to the temporary loss of one-half of the staff assigned to the site, causing a backlog. Sites with significant contamination are moving into the remediation phase. Five workplans and seventeen technical reports received Regional Board concurrence.

**Success Stories:**

The Orange County Water District and the Irvine Ranch Water District signed the Joint Multipurpose Remediation Agreement. The agreement will ensure treatment of the TCE contaminant plume at the Irvine Desalter.

The Record of Decision for No Further Action at Sites 7 and 14 was signed in June. In addition, site closure or No Further Action status was given for three aboveground storage tank sites, one oil/water separator site, and one wash rack site.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**SEAL BEACH WSF - PCA NO. 16669**

**Progress:**

The Navy is on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are below the anticipated and budgeted level due to the temporary loss of one-half of the staff, causing a backlog. Investigation of remedial options for OU-8 (Site 70) continues, while ARARs are being established for the cleanup of the ground water contaminant plume at IR Sites 40 and 70. Two workplans and three technical reports received Regional Board concurrence.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

## **TUSTIN MCAF - PCA NO. 16670**

### **Progress:**

The Navy is on schedule with the Two-Year Joint CA Execution Plan. The majority of the soil and ground water contamination investigations are complete and the sites are targeted for the remediation phase. The Navy has completed the hydrogeologic assessment and contaminant plume characterization at UST Site 222. Eight workplans and six technical reports received Regional Board concurrence.

### **Success Stories:**

Site closure or No Further Action was granted for ten aboveground storage tank sites, one underground storage tank site, one oil/water separator site, and one vehicle wash area site.

### **Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

## **NORTON AFB - PCA NO. 16671**

### **Progress:**

The Air Force is in mature stages but behind schedule with the Two-Year Joint CA Execution Plan. Maintenance and operation of CERCLA remedies are ongoing. The program was unexpectedly and swiftly turned over to AFBCA offices in Northern California. At least one site remains that is proposed for CERCLA remedial action. This site is located under the operating golf course and extends off the former base property into the Santa Ana River, and into an area that is populated by endangered plant species.

### **Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

## **MARCH AFBCA - PCA NO. 16672**

### **Progress:**

The Air Force is on schedule with the Two-Year Joint CA Execution Plan with regard to the remaining IRP sites. New ground water extraction wells have been completed at the closed Landfill Site 4 that will be connected to the EGETS. These wells will enhance removal and stop off-base (former base boundary) migration of the PCE plume associated with Site 4.

### **Challenges:**

The Air Force needs to complete remedial actions at two UST release sites. Both sites are years behind expected implementation of final corrective action plans. The Air Force and Department of Defense are negotiating changes to the Final OU-2 ROD without input from the other agencies. The status of this ROD and the expected Base-wide ROD is now unknown.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**JOINT FORCES TRAINING BASE, LOS ALAMITOS (formerly Armed Forces Reserve Center) - PCA NO. 16982****Progress:**

The Army National Guard is generally on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are below the anticipated and budgeted level due to the temporary loss of one-half of the staff assigned to the site, causing a backlog. The baseline risk assessment for soils in surface-contaminated areas of concern is underway. This risk assessment is necessary to confirm the areas that will require remediation. The Regional Board received, reviewed, and concurred on the 'Draft Remedial Investigation Report for Operable Unit 3, Phase I'; the 'Technical Memorandum for Operable Unit No. 2'; and the 'Final OU-2 Technical Memorandum for Operable Unit No. 2, Phase II-A'. The Phase II Remedial Investigation for Operable Units 1, 2, and 3 Sites report submittals continue on an ongoing basis. Monitoring reports continue to be submitted and reviewed on an ongoing basis. Regional Board staff attended a Planning Workshop in February and also observed interim remedial actions at Building 35, CFR, JP-4 and Building 158 during site visits in March, April, and June.

**Execution Plan Status:**

See attachments to this report.

**CAMP ANZA - PCA NO. 16983****Progress:**

The USACE remains behind schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are below budgeted levels because two post-removal tank site investigations have not been initiated, due to the USACE not gaining access to private property. The USACE is preparing a report on the results of their investigation at UST Site C9. Two additional UST Sites (B2 and B10), situated on private property, have not yet been investigated.

**Challenges:**

The USACE is still encountering difficulties gaining access to private property for the investigations at UST Sites B2 and B10.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

## **MARCH ARB - PCA NO. 16985**

### **Progress:**

The Air Force Reserve is generally on schedule with the Two-Year Joint CA Execution Plan. Oversight expenditures are below the anticipated and budgeted level due to the temporary loss of one-half of the staff assigned to the site, causing a backlog. Two treatment systems are in the final design and construction phase. The Regional Board received, reviewed, and concurred on the 'Draft Record of Decision, Operable Unit 2, AFRC Sites' and '80 Percent Submittal: Design Drawings and Specifications, Treatability Study in Support of Remedial Designs/Remedial Actions, Sites 2, 8 (Building 2300) and 27'. Numerous monitoring reports continue to be submitted and were reviewed. Regional Board staff observed cone penetrometer pushes and monitoring well construction at Site 33 and extraction well development at Site 36 during site visits in April and May.

### **Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.



**SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD  
DEPARTMENT OF DEFENSE (DoD) PROGRAM  
SEMIANNUAL REPORT  
(January 1 – June 30, 2001)**

**MARINE CORPS BASE, CAMP PENDLETON - PCA NO. 16675**

**Progress:**

The Installation Restoration Program is generally on schedule with the Two-Year Joint CA Execution Plan. However, direct and indirect challenges encountered with the closure of the Corrective Action Management Unit (CAMU, Box Canyon Landfill – Site 7) have consumed additional Regional Board staff time and, in part, contributed to delays in LUFT program report reviews. The Regional Board has completed oversight work on all of the IR submittals (total of six) provided by the Navy. The USMC had completed approximately 150 percent of the work originally projected for the LUFT sites in the Execution Plan. Regional Board staff completed approximately 27 percent of all the LUFT submittals provided by the DoN/USMC. Regional Board staff completed regulatory review and comments on two LUFT workplans and two CAPs. Additionally, oversight work included review of approximately 24 percent of the ground water monitoring reports (total of 54 submitted by DoN/USMC). Regional Board staff visited eight IR sites and five LUFT sites; and attended two FFA Meetings, an open house, and a meeting regarding proposed activities to evaluate subsurface migration of landfill gas. Additionally, due to recent staffing changes, the former and new RPMs conducted in-house transition meetings.

At IR Site 1A, where site conditions were determined to pose a threat to human health and ecological receptors, the following discoveries were made during remedial activities: 450' long by 120' wide by 15' high soil mound containing burn ash; extremely shallow ground water (3' bgs) with waste extending below the water table; four burn pits (dimensions 50' wide by 120' long by 25' deep); and a large number of buried field burners. The quantity, magnitude, and significance of these discoveries indicate Site 1A was not adequately characterized during the investigative phase. On May 29, 2001, a SWDIV representative issued a letter requesting a 221-day time extension for the Draft OU 4 Workplan. According to the subject letter, the extension is required due to "...newly identified natural resource issues, extended review periods, and recent replacement of many team members."

**Challenges:**

The program was hindered, in part, as new FFA party representatives (DoN, USMC, EPA, and the Regional Board) became familiar with base-specific environmental issues. Closure of the CAMU, Box Canyon Landfill – Site 7, by order of the Commanding General, continues to be a major challenge for the FFA parties and is a significant impediment to the program, since the agreed-upon remedy for several burn ash sites included removal and disposal at Site 7. The FFA parties are identifying options to address numerous repercussions of the closure. The DoN/USMC and USEPA are evaluating appropriate mechanisms and procedures (i.e., Explanation of Significant Difference (ESD) or an amendment to the ROD) for documenting and implementing future decisions. Activities have commenced at the CAMU to evaluate the

potential for landfill gas to migrate in the subsurface environment and impact the health of occupants of nearby homes and an elementary school.

The Regional Board continues to express objection to the DoN proposal to transfer CAO 96-49 LUFT cases into the IR Program. Based on recent verbal communication, the EPA representative appears to support the Regional Board's position. Recently, a DoN representative informed staff of the existence of 107 Resource Conservation and Recovery Act Facility Assessment (RFA) Sites requiring Regional Board regulatory oversight, and related workplans have recently been received. According to the DoN representative, several of the RFA sites are located in areas scheduled for construction in the near future and the DoN desires these sites receive expeditious review by the Regional Board.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**CORONADO NAVPHIBASE - PCA NO. 16676**

**Progress:**

The Installation Restoration Program is ahead of schedule for Sites 1 and 6 and behind schedule for Sites 2 through 5, respectively, with the Two-Year Joint CA Execution Plan. The Regional Board issued an NFA for Site 1. For Sites 2 and 4, the progress for Remedial Investigation of sediments is slow. The Navy is still conducting ecological risk assessment screening in the Bay. Treatability Investigation and Risk Management tasks for these sites are delayed pending results of the Remedial Investigation. Little activity occurred during this period for Regional Board lead USTs, pipelines, and the fuel farm cases. Under-expenditures reflect the closure of Site 1; non-submittal of deliverables for Sites 3 and 5; slow progress and delayed tasks for Sites 2 and 4; and little activity on petroleum cases.

**Challenges:**

Assessing offshore sediment contamination and establishing cleanup goals near Site 2 and 4 and around storm drains continues to bring scientific, technological, and economical challenges to the Navy and the regulators.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**IMPERIAL BEACH OUTLYING LANDING FIELD (OLF) - PCA NO. 16677**

**Progress:**

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. To date, the Navy has not implemented the proposed ESI Workplan for Sites 6 and 7. Over-expenditure are the result of under-estimating the budget in the original Execution Plan.

**Execution Plan Status:**

See attachments to this report.

**MARINE CORPS AIR STATION, MIRAMAR - PCA NO. 16678****Progress:**

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. Field work at UST Site 1 (IR Site 18) and IR Site 10 was initiated in March 2001.

**Challenges:**

Delays in the submission of Execution Plan deliverables continue to prevent the implementation of the plan objectives. The Regional Board will work with base personnel to meet the plan objectives in a timely manner. Additionally, it appears that the Marine Corps has not received funding for identified sites due to site ranking procedures. Regional Board staff continues to communicate with base personnel regarding status of site investigation and report submittals.

**Execution Plan Status:**

See attachments to this report.

**NAVAL AIR STATION, NORTH ISLAND (NASNI) - PCA NO. 16680****Progress:**

The Installation Restoration Program appears to be on track with the Two-Year Joint CA Execution Plan, although the schedule is difficult to track due to the number of IR sites and activities across the entire base. Regional Board staff provided written or oral comments on four workplans for IR sites, three ground water monitoring reports, three landfill maintenance reports, four UST closure reports, one CAP for Bldg. 66 Area USTs, and one workplan for free-product removal at the Fuel Farm. Regional Board staff also conducted one field visit at the Fuel Farm. Free-product removal action at the Fuel Farm, as well as other Regional Board lead activities for USTs and pipelines, are ongoing. Under-expenditures are due to increased staff efficiencies.

**Success Stories:**

Continuous, aggressive free-product removal action at the Fuel Farm has proven to be effective in controlling the migration of petroleum free-product toward San Diego Bay. The size of the free-product plume has been reduced from previous measurements.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

## **FLEET ANTI-SUBMARINE WARFARE TRAINING CENTER, PACIFIC, SAN DIEGO (FASWTC PAC) - PCA NO. 16682**

### **Progress:**

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan. Oversight under-expenditures are due to carryover of deliverables to Year 2. No Further Action was reached at UST Site 2 for Building 2. Negotiations with the Port of San Diego (neighboring property owner) on UST Site 2 Building 10 were successful.

### **Challenges:**

Delays in the submission of Execution Plan deliverables continue to prevent the implementation of the plan objectives. The Regional Board will work with base personnel to meet the plan objectives in a timely manner.

### **Execution Plan Status:**

See attachments to this report.

## **MARINE CORPS RECRUIT DEPOT, SAN DIEGO (MCRD) - PCA NO. 16684**

### **Progress:**

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. After a period of no action, the Marine Corps submitted two workplans for additional site assessment at Building 514 and Building 172 (which were not identified in the Execution Plan). Regional Board staff reviewed and provided comments on the two workplans. The Marine Corps has not responded to staff's comments and field work has not been initiated. The Marine Corps has not submitted a workplan for Building 344, as identified in the schedule.

### **Challenges:**

Delays in the submission of Execution Plan deliverables have prevented the implementation of the plan objectives. The Regional Board will work with base personnel to meet the plan objectives in a timely manner.

### **Execution Plan Status:**

See attachments to this report.

## **NAVAL COMMUNICATIONS STATION, SAN DIEGO (NCS) - PCA NO. 16686**

### **Progress:**

No work was anticipated at the site, therefore, no Two-Year Joint CA Execution Plan was prepared. Regional Board staff reviewed and provided written comments for the following unanticipated documents: No Further Action Request for UST 1828 and No Further Action Request for UST 1832. The Request for No Further Action was denied and further work is necessary.

**Execution Plan Status:**

N/A.

**NAVAL STATION, SAN DIEGO (NAVSTA) - PCA NO. 16689****Progress:**

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. Oversight under-expenditures are due to carryover of a majority of deliverables to Year 2.

Delays in planned deliverables at Site 1 and 4 appear to be due to the Navy's displeasure with their contractor's data quality objective approach. Delays in planned deliverables at Site 13 are due to a need for additional soil and ground water sampling within a vault. Additional soil and ground water sampling will determine if the material in the vault is hazardous or non-hazardous. Should the material be hazardous waste, additional delays may be incurred.

The impact from Site 1 contaminants to San Diego Bay ecological receptors is being addressed by the Naval Station Team. The Naval Station Team met on May 31 at a Pre-proposal Conference (PPC) to discuss and establish roles and responsibilities in the ground water study at NAVSTA-SD Site 1. This effort involved identifying and applying technologies capable of determining the connection between Site 1 ground water and San Diego Bay, and the impact on the organisms in the Bay.

Additional discussion between the Navy and DTSC is necessary on planned activities at the SWMUs identified in the plan. Although planned work was estimated for two SWMUs, the Navy does not anticipate submittal of the deliverables because they did not receive any funding to do the planned work.

**Success Stories**

The removal action at Site 2 is complete.

**Execution Plan Status:**

See DTSC Semiannual Report for Two-Year Joint CA Execution Plan that has "Status" annotated.

**FLEET INDUSTRIAL SUPPLY CENTER, SAN DIEGO (FISC) - PCA NO. 16691****Progress:**

The Installation Restoration Program is behind schedule with the Two-Year Joint CA Execution Plan. This is the result of 1) work that materialized which was not envisioned in the Execution Plan and 2) significant delays in report submittals. The Navy requested and the Regional Board agreed to review and comment on the 'Site 4 Fuel Farm Preliminary Final Site Assessment Report', in lieu of the Site 3 reports (forthcoming shortly) planned in the Execution Plan. Additionally, the Regional Board reviewed the Closure Report for Site 19; a deliverable carried over from the previous FY.

**Execution Plan Status:**

See attachments to this report.

**NAVAL TRAINING CENTER, SAN DIEGO (NTC) - PCA NO. 16692****Progress:**

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan for Site 15, and behind schedule for Site 12. The Regional Board issued No Further Action letters for IR Site 15 and UST 361. The Feasibility Study for Site 12 is delayed pending the finalization of the RI report. Regional Board staff is coordinating with other Federal, State, and local agencies to further evaluate the Navy's response to agencies' comments and prepare a final letter. Regional Board staff has participated in numerous phone conferences and meetings to discuss related issues at Site 12. Regional Board staff reviewed and approved two Draft and Final FOST documents for Parcels VIII and X. The over-expenditure reflects an extended site investigation at UST Site 361, the preparation and review of two FOST documents that were not in the original Execution Plan, and the high level of complexity and difficulty for Site 12.

**Challenges:**

Sediment contamination at Site 12 (Boat Channel) involves multiple property owners and operators. Site 12 not only brings technical challenges in assessing the extent of sediment contamination, risks, and cleanup goals, but also raises political issues regarding responsibilities, which may complicate the investigation and cleanup of Site 12.

**Success Stories:**

The Regional Board closed IR Site 15 and UST Site 361; and approved two FOST documents for Parcel VIII and Parcel X. The Governor's Office approved a GAR package for the Site 1 transfer.

**Execution Plan Status:**

See attachments to this report.

**S.E.R.E CAMP, WARNER SPRINGS - PCA NO. 16697****Progress:**

The Installation Restoration Program is on schedule with the Two-Year Joint CA Execution Plan. Under-expenditures occurred because the Navy was late in submitting the Semiannual Landfill Monitoring and Maintenance Report identified in the Execution Plan.

**Execution Plan Status:**

See attachments to this report.

**SEMIANNUAL REPORT - NON SITE ACTIVITIES  
STATE WATER RESOURCES CONTROL BOARD/  
REGIONAL WATER QUALITY CONTROL BOARDS  
DEPARTMENT OF DEFENSE (DOD) PROGRAM  
(JANUARY 1 - JUNE 30, 2001)**

The State Water Board (Division of Clean Water Programs, Office of the Chief Counsel, and the Division of Administrative Services) and all nine Regional Water Quality Control Boards (RWQCBs) charge non-site activities to PCAs 16901 and 16905.

**STATE WATER BOARD:**

**Division of Clean Water Programs:**

**Program Management and Administration - PCA NO. 16901**

- Assisted with preparation of procedures and coordinated the FY 01-02 Annual Funding Review (AFR) process for submittal to DTSC on March 16, 2001.
- Finalized the FY 01-02 DoD Program Workplan, including site-specific facility budgets and State Water Board and Regional Water Board Performance Measures.
- Participated in telephone calls and meetings and utilized email to coordinate administrative tasks with DTSC and the RWQCBs.
- Coordinated with DTSC management regarding DoD Program management issues.
- Participated in CA In-Progress Review meetings with DTSC and the military on March 2, 2001, and June 7, 2001 (teleconference).
- Responded to requests from the military and DTSC regarding the DSMOA CA implementation and the FY 2000-01 and FY 2001-02 CA Application.
- Provided the RWQCBs with DoD Program implementation guidance and relevant information from the DoD/USACE, the USEPA, and/or DTSC.
- Planned, facilitated, and participated in three DoD Program Roundtables with State and Regional Water Board participants as follows: Two Roundtables, including site visits to Norton AFB in Riverside on January 17-18, 2001, and Alameda NAS and the Presidio of San Francisco in Oakland on May 16-17, 2001; and one teleconference on March 15, 2001. Prepared and distributed minutes of each Roundtable.
- Continued development and maintenance of the DoD Database Program. Compiled, reconciled, and transmitted Daily Log Reports, for the months of January through June 2001, to DTSC, as required by the IA. Compiled, reconciled, and transmitted the Significant

Milestone Reports and the Semiannual Report, to DTSC, as required by the IA. Developed and transmitted monthly site and non site-specific Expenditure Reports to affected organizations and the military.

- Participated in the Air Force/Navy Environmental Restoration Summit in San Francisco on April 17-18, 2001.
- Participated as a staff assistant on the 'Improving the Cleanup Process Workgroup' for Cal/EPA.
- Assisted RWQCBs with work efforts necessary to upload DoD UST data into GeoTracker. Provided assistance to the RWQCBs regarding AB2886, which requires electronic reporting of UST laboratory data into GeoTracker.
- Maintained the DoD Program Intranet site, including the Bimonthly Roundtable Minutes, training announcements, the technical library, and guidance.
- Reviewed monthly invoice and labor distribution reports; resolved errors and omissions, when necessary.
- Prepared and participated in Executive Program Management Briefings.
- Attended training: Title 27; Legislative Bill Analysis; AEHS Conference; AF/Navy Environmental Restoration Summit; Internal Field Sampling of VOCs; Telework Training; Emergency Team Training; Palm Pilot Training; Emergency Evacuation Training; Americans with Disabilities Act (ADA) Training.
- Supervised staff, developed duty statements, prepared performance evaluations, and participated in employee interviews.
- Prepared timesheets and input daily log and narrative information into the DoD Database Program.

**Office of the Chief Counsel:**

**Program Management and Administration - PCA NO. 16901**

- Provided legal assistance to SWRCB and RWQCB staff.
- Assisted RWQCBs in ARARs identification.
- Prepared timesheets and input daily log and narrative information into the DoD Database Program.



**Division of Administrative Services:**  
**Program Management and Administration - PCA NO. 16901**

- Prepared and sent monthly DoD Program invoices to DTSC, monitored the Reimbursement Worksheet for cash availability, and calculated and posted monthly statistics.
- Prepared timesheets and input daily log and narrative information into the DoD Database Program.

**REGIONAL WATER QUALITY CONTROL BOARDS:**

**Program Management and Administration - PCA NO. 16901**

- Developed and provided the SWRCB with input for the FY 01-02 AFR submittal to DTSC.
- Developed and provided the SWRCB with input for the July through December, 2000 Semiannual Report to DTSC.
- Assisted SWRCB with work efforts necessary to upload DoD UST data into GeoTracker.
- Responded to requests from the military and DTSC regarding the DSMOA CA implementation.
- Coordinated with DTSC management regarding DoD Program management issues.
- Attended Senior, unit, and technical staff meetings and prepared progress report updates to RWQCB management.
- Participated in three DoD Program Roundtables as follows: Two Roundtables, including site visits to Norton AFB in Riverside on January 17-18, 2001, and Alameda NAS and the Presidio of San Francisco in Oakland on May 16-17, 2001; and one teleconference on March 15, 2001.
- Participated in the Air Force/Navy Environmental Restoration Summit in San Francisco on April 17-18, 2001.
- Attended training: NPDES Permit Writers Course; Landfill Regulations/WDRs; Ground Water Remediation Conference ; GIS; LIA/USTs; Reasonable Potential Analysis for NPDES Permits; Oxygenates Remediation; AEHS Conference; Risk-Based Screening Levels; Fortis Imaging; RWQCB Enforcement; F&WS Environmental Contaminants Conference; TMDLs; Permeable Reactive Barriers; SWIM; Sediment Quality Workshop; Basic Supervision; New Employee Orientation; Health and Safety; Illness and Injury Prevention; Contract Management; Customer Service; Effective Presentations; Personal Skills; ADA/OSHA for Supervisors; Proofreading and Mistake-Free Grammar; Coaching and Team Building for Supervisors; Communication Skills; GroupWise; and miscellaneous computer classes.

- Prepared timesheets and input daily log, milestone, and narrative information into the DoD Database Program.
- Supervised staff, developed duty statements, prepared performance evaluations, and participated in employee interviews.

**STATE WATER BOARD AND REGIONAL WATER QUALITY CONTROL BOARDS:**

**Clerical Support - PCA NO. 16905**

- Provided clerical support for the DoD Program professional staff.

## ATTACHMENTS

### TWO-YEAR JOINT CA EXECUTION PLANS

6-30-01 STATUS  
(In Regional Board Order)

## TWO-YEAR JOINT CA EXECUTION PLAN

Service: **Army Corps of Engineers**Name of Installation: **Santa Rosa Naval Auxiliary Air Station**

Funding Source

Project or Operable Unit:

State: **CA****Water Board Lead, PCA #169-12**DERP **X**

BRAC 1

BRAC 2

BRAC 3

BRAC 4

**CA Period 1 Jul 00 - JUN 02**

<b>YEAR 1</b>	<b>July 1, 2000 to June 30, 2001</b>	
<b><u>Milestones</u></b>	<b><u>Tasks</u></b>	<b><u>State DSMOA Services</u></b>
Technical Memo summing up RI	Prepare Technical Memo <b>STATUS = 1</b>	Review Technical Memo
Removal of High Priority Surface Contamination	Prepare workplan <b>STATUS = 4</b>	Review workplan
Develop workplan for additional RI	Prepare workplan <b>STATUS = 4</b>	Review workplan for additional RI
UST investigation workplan	Prepare workplan <b>STATUS = 4</b>	Review and comment on Draft and Final UST investigation workplans
Project Management	RPM Project Coordination/ Management <b>STATUS = 1</b> 4 Site Visits <b>STATUS = 1</b> RPM Training <b>STATUS = 1</b>	Attend RPM Meetings  Site visits  RPM Training
UST		Review and comment on Draft and Final UST Closure Report
Public Participation	Conduct Public Meetings <b>STATUS = 1</b>	Assist ACOE with Public Participation Process

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.  
Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

<b>YEAR 2</b>	<b>July 1, 2001 to June 30, 2002</b>	
<b><u>Milestones</u></b>	<b><u>Tasks</u></b>	<b><u>State DSMOA Services</u></b>
Feasibility Study	Prepare Study SOW	Review and comment on draft and final documents
UST Corrective Action Plan (CAP)	Prepare UST CAP	Review and comment on draft and final CAP
Quarterly	4 Quarterly Groundwater Monitoring Reports	Review and comments on documents
Project Management	4 Site Visits	4 site visits
	RPM Training	Attend applicable training
	RPM Project Coordination/ Management	Attend RPM meetings
Public Participation	Conduct Public Meetings	Ensure adequate public participation

State RWQCB Project Manager: Stephen Bargsten

E-mail/Phone No.: bargs@rb1.swrcb.ca.gov Date: 1/5/01

DoD Project Manager: Raj Sandhu

E-mail/Phone No.: Rsandhu@spk.usace.army.mil Date: 1/5/01

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Note: For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review.

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.  
Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

## TWO-YEAR JOINT CA EXECUTION PLAN

### Water Board Lead, PCA # 166-10

Name of Installation, Project, or Operable Unit:

**Moffett Federal Airfield**

Service:

**Department of the Navy**

Funding Source:

DERA \_\_\_\_\_

BRAC \_\_\_\_\_

**BRAC II** XX \_\_\_\_\_

BRAC III \_\_\_\_\_

BRAC IV \_\_\_\_\_

List all major milestones occurring at the installation for years 1 and 2.

### YEAR 1 (FY 00/01)

Stationwide Conceptual Design ( 4 )	7/2/00
Northern Channel Draft Alternatives Analysis TM (4 )	8/7/02
Site 22 Draft Final ROD( 4 )	5/22/01
Northern Channel Draft ROD( 5 )	3/05/04
Northern Channel Draft Final Proposed Plan( 5 )	8/14/03
Draft ISRM Interim Field Test Report ( 2 )	8/7/00
Site 22 Final ROD ( 1 )	9/7/00
Site 22 RD/RA Definitive Design ( 4 )	9/11/00
Northern Channel Draft Eco Monitoring Plan ( 5 )	5/29/03
Northern Channel Final Alternatives Analysis TM ( 5 )	9/02/03
Northern Channel Final Proposed Plan ( 5 )	9/05/03
Final February 2000 Quarterly Report ( 2 )	6/29/01
Draft May 2000 Quarterly Report ( 2 )	6/29/01
EATS NPDES Self-monitoring Report ( 2 )	9/29/00
WATS NPDES Self-monitoring Report ( 2 )	9/29/00
Site 22 Draft Design Fact Sheet ( 4 )	06/20/01
Final ISRM Interim Field Test Report ( 1 )	10/21/00
Northern Channel Draft Final ROD ( 5 )	03/05/04
Stationwide RD/RA Preliminary Design ( 4 )	12/17/01
Site 22 Draft O&M Plan ( 4 )	05/10/02
Northern Channel Final Eco Monitoring Plan ( 5 )	11/15/03
Stationwide Draft RD/RA Design Fact Sheet ( 5 )	03/05/04
Site 22 Final RD/RA Design Fact Sheet ( 4 )	8/26/01

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; [4] Delayed, carryover to Year 2, and [5] Delayed, carryover to year 3, 4, 5.

Northern Channel Final ROD ( 5 )	5/11/04
Final May 2000 Quarterly Report ( 4 )	6/29/01
Draft August 2000 Quarterly Report ( 2 )	6/29/01
EATS NPDES Self-monitoring Report ( 1 )	7/30/01
WATS NPDES Self-monitoring Report ( 1 )	7/30/01
Site 22 Final O&M Plan ( 5 )	8/24/03
Stationwide Final RD/RA Design Fact Sheet ( 4 )	4/29/02
Site 22 Draft Remedial Action Completion Report ( 5 )	5/16/04
Stationwide RD/RA Definitive Design ( 4 )	7/28/02
Northern Channel RD/RA Conceptual Design ( 5 )	3/25/04
Stationwide Draft O&M Plan ( 5 )	3/31/04
Final August 2000 Quarterly Report ( 2 )	6/29/01
Draft November 2000 Quarterly Report ( 2 )	6/29/01
EATS NPDES Self-monitoring Report ( 1 )	7/30/01
WATS NPDES Self-monitoring Report ( 1 )	7/30/01
Site 22 Final Remedial Action Completion Report ( 5 )	5/17/03
Final November 2000 Quarterly Report ( 2 )	6/29/01
Draft February 2001 Quarterly Report ( 2 )	6/29/01
EATS NPDES Self-monitoring Report ( 1 )	6/29/01
WATS NPDES Self-monitoring Report ( 1 )	6/29/01
Remaining USTs Closure ( 1 )	
Public Meeting (Northern Channel) ( 1 )	
RPM Meetings - 12 Meetings (1 meeting per month) ( 2 )	
RAB Meetings - 4 Meetings (1 meeting per quarter) ( 2 )	
Field Inspections - 6 times a year ( 2 )	

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; [4] Delayed, carryover to Year 2, and [5] Delayed, carryover to year 3, 4, 5.

**YEAR 2 (FY 01/02)**

Northern Channel Preliminary RD/RA Design	7/24/01
Northern Channel Corridor Draft RD/RA Technical Memorandum	8/3/01
Stationwide Final O&M Plan	8/15/01
Northern Channel Draft RD/RA Design Fact Sheet	8/24/01
Final February 2001 Quarterly Report	9/28/01
Draft May 2001 Quarterly Report	9/28/01
EATS NPDES Self-monitoring Report	9/28/01
WATS NPDES Self-monitoring Report	9/28/01
Northern Channel Corridor Draft Final TM	10/17/01
Northern Channel Final RD/RA Design Fact Sheet	10/24/01
Stationwide Draft Remedial Action Completion Report	10/28/01
Northern Channel RD/RA Definitive Design	11/21/01
Northern Channel Corridor Final RD/RA Technical Memorandum	12/16/01
Northern Channel Draft O&M Plan	12/22/01
Final May 2001 Quarterly Report	12/31/01
Draft August 2001 Quarterly Report	12/31/01
EATS NPDES Self-monitoring Report	12/31/01
WATS NPDES Self-monitoring Report	12/31/01
Stationwide Final Remedial Action Completion Report	1/27/02
Final August 2001 Quarterly Report	3/31/02
Draft November 2001 Quarterly Report	3/31/02
EATS NPDES Self-monitoring Report	3/31/02
WATS NPDES Self-monitoring Report	3/31/02
Northern Channel Final O&M Plan	5/8/02
Final November 2001 Quarterly Report	6/30/02
Draft February 2002 Quarterly Report	6/30/02
EATS NPDES Self-monitoring Report	6/30/02
WATS NPDES Self-monitoring Report	6/30/02
RPM Meetings - 12 Meetings (1 meeting per month)	
RAB Meetings - 4 Meetings (1 meeting per quarter)	
Field Inspections - 6 times a year	

## Concurrence Signatures

Adriana Constantinescu	7/10/01
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State Project Manager	Date
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Andrea Muckerman	Pending
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DOD Project Manager	Date
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Date of Update \_\_\_\_\_

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; [4] Delayed, carryover to Year 2, and [5] Delayed, carryover to year 3, 4, 5.



**TWO-YEAR JOINT CA EXECUTION PLAN\***Service: US NavyName of Installation: NFD Point Molate

Funding Source

Project, or Operable Unit \_\_\_\_\_

State CA**Water Board Lead, PCA # 166-12**

DERP \_\_\_\_\_

BRAC 1 \_\_\_\_\_

BRAC 2 \_\_\_\_\_

BRAC 3 \_\_\_\_\_

BRAC 4 **X**

CA Period 1 JUL 00 – 30 JUN 02

**YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01****WORK DESCRIPTION:**

Review of key documents and oversight of remediation projects.

**DELIVERABLES:**

Final Phase II EBS ( **4** ),  
 Corrective Action Plans for USTs & Pipelines ( **4** ),  
 UST/Pipeline Closure Reports ( **1** ),  
 USTs Closure Plans and Specs( **1** ),  
 Final EE/CA ( **2** ),  
 Basewide GW Monitoring Program ( **1** ),  
 Site 3 Draft EE/CA ( **4** )

**MEETINGS:** RAB meetings, BCT meetings, RPM Scoping Meetings, **Status is ( 1 ) for all meetings****ADDITIONAL STATE ACTIVITIES:**

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.  
 Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

<b>YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02</b>
WORK DESCRIPTION:
Review of key documents and oversight of remediation projects.
DELIVERABLES:
Plans & Specifications, Proposed Plans & ROD, Project Closure-out Reports)
Corrective Action Plans
MEETINGS: RAB meetings, BCT &RPM meetings, Public Meetings
ADDITIONAL STATE ACTIVITIES: Information to be supplied by the state.

State Project Manager: **Adriana Constantinescu**

E-mail/Phone No. [avc@rb2.swrcb.ca.gov](mailto:avc@rb2.swrcb.ca.gov) (510)622-2353

Date: 06/30/01

DoD Project Manager: Marianna Potacka

E-mail/Phone No. [potackamk@efds.w.navy.mil](mailto:potackamk@efds.w.navy.mil) (619)532-0941

Date: 06/30/01

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\* For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review.

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

(Recreated from 01/14/00 FAX copy)

**TWO-YEAR JOINT CA EXECUTION PLAN\***

Service DEFENSE ENERGY SUPPORT CENTER  
 Name of Installation DFSP OzoI  
 Project, or Operable Unit \_\_\_\_\_  
 State California  
**Water Board Lead, PCA # 166-21**

Funding Source

DERP \_\_\_\_\_  
 BRAC 1 \_\_\_\_\_  
 BRAC 2 \_\_\_\_\_  
 BRAC 3 \_\_\_\_\_  
 DWCF X

CA Period 1 JUL 00 – 30 JUN 02

<b>YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01</b>
WORK DESCRIPTION: Review biannual site Monitoring and Sampling Report [ 1 ], review quarterly Remediation System Status Reports [ 1 ], review, comment, approve site Risk Assessment [ 1 ]. Review and evaluate remediation system effectiveness and if appropriate, implementation of remediation system upgrades as needed [ 1 ].
DELIVERABLES: Biannual Monitoring and Sampling Reports [ 1 ], Quarterly System Status Reports [ 1 ], Risk Assessment [ 1 ].
MEETINGS: (optional)
ADDITIONAL STATE ACTIVITIES:

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.  
 Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

<b>YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02</b>
WORK DESCRIPTION: Review biannual site Monitoring and Sampling Report, review quarterly Remediation System Status Reports. Review of the remediation system upgrades (including work plans, etc) determined in Year 1, as appropriate.
DELIVERABLES: Biannual Monitoring and Sampling Reports, Quarterly System Status Reports, Remediation System Work Plans.
MEETINGS: (optional)
ADDITIONAL STATE ACTIVITIES: Information to be supplied by the state.

State Project Manager   /s/ James Ponton    
 E-mail/Phone No.   jdp@rb2.swrcb.ca.gov (510) 622-2492   Date:   1/11/00  

DoD Project Manager   /s/ Jack O'Donovan    
 E-mail/Phone No.   jodonovan@desc.dla.mil (703) 767-8309   Date:   1/11/00  

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\* For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

## TWO-YEAR JOINT CA EXECUTION PLAN

Service: U.S Army  
 Name of Installation Presidio of Monterey Funding Source  
 Project, or Operable Unit DERA Projects  
 State California  
**Water Board Lead, PCA # 166-23**

DERP X  
 BRAC 1 \_\_\_\_\_  
 BRAC 2 \_\_\_\_\_  
 BRAC 3 \_\_\_\_\_  
 BRAC 4 \_\_\_\_\_

CA Period 1 JUL 00 – 30 JUN 02

YEAR 1		July 1, 2000 to June 30, 2001	
<u>Milestones</u>	<u>Task(s)</u>	<u>State DSMOA Services</u>	
RI/FS – Lower motorpool (POM-02)	Final Remedial Investigation Report and Feasibility Study <b>Status – [ 1 ]</b>	<ul style="list-style-type: none"> <li>• Conduct technical reviews</li> <li>• Attend comment resolution meetings</li> <li>• Coordinate with Monterey County Department of Environmental Health</li> </ul>	
LTM – Landfill (POM-05)	Long Term Maintenance <b>Status – [ 1 ]</b>	<ul style="list-style-type: none"> <li>• Quarterly Inspections</li> <li>• Review quarterly LTM reports</li> </ul>	

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.  
 Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

<b>YEAR 2</b>	<b>July 1, 2001 to June 30, 2002</b>	
<u>Milestones</u>	<u>Task(s)</u>	<u>State DSMOA Services</u>
On-going LTM - Landfill (POM-05)	Long Term Maintenance	<ul style="list-style-type: none"> <li>• Quarterly inspections</li> <li>• Review quarterly LTM reports</li> </ul>

State Project Manager Grant Himebaugh /s/ \_\_\_\_\_

E-mail/Phone No. [ghimebau@rb3.swrcb.ca.gov](mailto:ghimebau@rb3.swrcb.ca.gov) / (805) 542-4636 \_\_\_ Date: \_1/3/00\_\_\_\_\_

DoD Project Manager Melissa Hlebasko /s/ \_\_\_\_\_

E-mail/Phone No. [hlebaskm@pom-emhl.army.mil](mailto:hlebaskm@pom-emhl.army.mil) / (831) 393-1284 Date: \_1/3/00\_\_\_\_\_

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.  
Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

## Appendix E

### TWO-YEAR JOINT CA EXECUTION PLAN

**Service** \_\_Department of the Army\_\_\_\_\_

**Name of Installation** Branch U.S. Disciplinary Barracks, **Lompoc**

**Projects** \_RIFS-Wood Dump, RIFS- Former Army Landfill, RIFS-

Washrack/Greaserack, SI- Farm Fuel Area, PP/ROD- other sites

**State** \_\_California\_\_\_\_\_

**Water Board Lead, PCA #169-30**

Funding

DERP	_____
BRAC 1	_____
BRAC 2	_____
BRAC 3	_____
BRAC 4	<u>X</u> _____

CA Period 1 JUL 00 – 30 JUN 02

YEAR 1	July 1, 2000 to June 30, 2001	
Milestones	Tasks	State DSMOA Services
RD-Wood Dump	RD of culvert and cover, <b>Status – [4]</b> ; GW monitoring <b>Status – [1]</b>	<ul style="list-style-type: none"> <li>Conduct technical reviews</li> <li>Identify ARARs</li> <li>Review GW monitoring results</li> </ul>
RI/FS-Wash Rack	RI/FS, Further characteriztion <b>Status – [4]</b> ; GW monitoring <b>Status – [1]</b>	<ul style="list-style-type: none"> <li>Conduct technical reviews</li> <li>Review GW monitoring results</li> </ul>
RD Farm Fuel Area	RD for 1,2 DCA plume GW monitoring <b>Status – [1]</b>	Conduct technical review of plans Identify ARARs Review GW monitoring results
SI Scarring Area	SI geophysical survey and soil gas samples <b>Status – [4]</b>	Conduct technical review of plans
INV UST site at Powerhouse	Take conformation samples <b>Status – [4]</b>	Conduct technical review of plans
INV UST site at Transportation Bldg	Take conformation samples <b>Status – [4]</b>	Conduct technical review of plans
Special Items	BRAC tasks, letter reports, RWQCB Board items, conference calls <b>Status – [1]</b>	<ul style="list-style-type: none"> <li>Attend BCT meetings, participate in conference calls</li> <li>Conduct technical reviews, respond to public inquiries</li> <li>Prepare Regional Water Quality Control Board status reports</li> </ul>

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

<b>YEAR 2</b>	<b>July 1, 2001 to June 30, 2002</b>	
<b>Milestones</b>	<b>Tasks</b>	<b>State DSMOA Services</b>
RD, RA Farm Fuel Area	RD, RA for 1,2 DCA plume GW monitoring	<ul style="list-style-type: none"> <li>• Conduct technical review of plans</li> <li>• Conduct technical review of reports</li> <li>• Review GW monitoring results</li> </ul>
RD, RA Wash Rack	RD, RA of PCE plume GW monitoring	<ul style="list-style-type: none"> <li>• Conduct technical review of plans</li> <li>• Conduct technical review of reports</li> <li>• Identify ARARs</li> <li>• Review GW monitoring results</li> </ul>
RD, RA Wood Dump Site	RD, RA of culvert and site cover GW monitoring	<ul style="list-style-type: none"> <li>• Conduct technical review of plans</li> <li>• Review GW monitoring results</li> </ul>
SI Scarring Area	Review results of SI	<ul style="list-style-type: none"> <li>• Conduct technical review of reports</li> <li>• Sign NFA Memo</li> </ul>
INV UST site at Powerhouse	Review results of INV	<ul style="list-style-type: none"> <li>• Conduct technical review of reports</li> <li>• Issue closure letter</li> </ul>
INV UST site at Transportation Bldg	Review results of INV	<ul style="list-style-type: none"> <li>• Conduct technical review of reports</li> <li>• Issue closure letter</li> </ul>
Special Items	BRAC meetings and tasks RWQCB items Conference calls	<ul style="list-style-type: none"> <li>• Attend BCT meetings</li> <li>• Participate in conference calls</li> <li>• Conduct technical reviews</li> <li>• Respond to public inquiries</li> <li>• Prepare RWQCB status reports</li> </ul>

State Project Manager : Linda Stone

E-mail/Phone No. [lstone@rb3.swrcb.ca.gov](mailto:lstone@rb3.swrcb.ca.gov) (805) 542-4695

Date: 3/15/01

Signature

\_\_\_\_\_/s/\_\_\_\_\_

DoD Project Manager: Eric Waehling, BRAC Environmental Coordinator.

E-mail/Phone No. [waehline@lewis.army.mil](mailto:waehline@lewis.army.mil) / 253-966-1732

Date: 3/27/01

Signature

\_\_\_\_\_/s/\_\_\_\_\_

Alternate POC: Frank Crown, Project and Technical Manager

E-mail/Phone No. [crownf@lewis.army.mil](mailto:crownf@lewis.army.mil)/253-967-2326

Date: 3/27/01

Signature

\_\_\_\_\_/s/\_\_\_\_\_

\* For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review.

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.



## TWO-YEAR JOINT CA EXECUTION PLAN

Service: Army National Guard  
 Name of Installation: Camp Roberts  
 Funding Source: DERA  
 Project, or Operable Unit: N/A  
 State: California  
**Water Board Lead, PCA #169-31**

DERP	<u>X</u>
BRAC 1	<u>      </u>
BRAC 2	<u>      </u>
BRAC 3	<u>      </u>
BRAC 4	<u>      </u>

CA Period 1 JUL 00 – 30 JUN 02

<b>YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01</b>
WORK DESCRIPTION: Complete SI, <b>Status – [ 4 ]</b> ; Decision Documents for sites proposed for no further action, <b>Status – [ 4 ]</b>
DELIVERABLES: Draft SI Reports: <b>Status – [ 1 ]</b>
Installation Action Plan: <b>Status – [ 4 ]</b>
Decision Document: <b>Status – [ 4 ]</b>
MEETINGS: Monthly RPM meetings: <b>Status [ 1 ]</b> ; Annual In Progress Review Meeting: <b>Status [ 4 ]</b>
ADDITIONAL STATE ACTIVITIES: Technical site visits; Technical and Regulatory Review, Annual In Progress Review, Annual Partnering meeting

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

<b>YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02</b>
WORK DESCRIPTION: Review Possible RI actions and Develop a work plan
DELIVERABLES: Installation Action Plan
Draft RI Work Plan
MEETINGS: Monthly RPM meetings
ADDITIONAL STATE ACTIVITIES: Technical site visits; Technical and Regulatory Review, Annual In Progress Review, Annual Partnering meeting

State Project Manager: Kevin Kratzke

E-mail/Phone No. [kkratzke@rb3.swrcb.ca.gov](mailto:kkratzke@rb3.swrcb.ca.gov) (805) 594-6195 Date: 12/14/99

DoD Project Manager: Guy K. Romine

E-mail/Phone No. [LAAFRC@aol.com](mailto:LAAFRC@aol.com) (562) 795-2821 Date: 12/8/99

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

**TWO-YEAR JOINT CA EXECUTION PLAN**

Service \_\_\_\_USACE, Sacramento District\_\_\_\_\_

Name of Installation \_\_\_\_NAS Monterey\_\_\_\_\_

Project, or Operable Unit \_\_\_\_\_

State \_\_\_\_California\_\_\_\_\_

Funding Source

FUDS           X

**Water Board Lead, PCA # 169-39**

CA Period 1 JUL 00 – 30 JUN 02

<b>YEAR 1</b>	<b>July 1, 2000 to June 30, 2001</b>	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
<b>Tanks 9 and 89 Areas</b>		
Interim Operations Draft Final Report	Quarterly groundwater monitoring pending selection of final remedy <b>Status – [ 1 ]</b>	<ul style="list-style-type: none"> <li>• Conduct technical reviews</li> <li>• Attend comment resolution meetings</li> </ul>
<b>Building 17 Area</b>		
Interim Operations Draft Final Report	Quarterly groundwater monitoring pending selection of final remedy <b>Status – [ 1 ]</b>	<ul style="list-style-type: none"> <li>• Conduct technical reviews</li> <li>• Attend comment resolution meetings</li> </ul>
<b>Fire Fighting Training Facility</b>		
RI/FS Scoping	Site Characterization, <b>Status – [ 1 ]</b>	<ul style="list-style-type: none"> <li>• Conduct technical reviews</li> <li>• Attend comment resolution meetings</li> <li>• Coordinate with other state agencies, ecology programs, and EPA</li> </ul>
	Develop Work/Sampling & Analysis Plan, <b>Status – [ 2 ]</b>	
	Develop Worker Health & Safety Plan, <b>Status – [ 2 ]</b>	
	Final Remedial Investigation Report and Feasibility Study, <b>Status – [ 4 ]</b>	
Remedy Selection	Proposed Plan (2-3 Drafts), <b>Status – [ 4 ]</b>	<ul style="list-style-type: none"> <li>• Screen alternatives</li> <li>• Review and approve plan</li> <li>• Identify ARARS</li> <li>• Coordinate with other state agencies, ecology programs, and EPA</li> </ul>

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.  
Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

<b>YEAR 2</b>	<b>July 1, 2001 to June 30, 2002</b>	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
Remedy Selection	Record of Decision	<ul style="list-style-type: none"> <li>• Conduct technical reviews</li> <li>• Attend comment resolution meetings</li> <li>• Coordinate with other state agencies, ecology programs, and EPA</li> <li>• Negotiate schedule for RD/RA</li> <li>• Conduct technical reviews</li> <li>• Attend comment resolution meetings</li> <li>• Coordinate with other state agencies, ecology programs, and EPA</li> </ul>
Remedy Design	Scope Design Remedial Design (2-3 Drafts)	

State Project Manager: Grant Himebaugh  
E-mail/Phone No.: ghimebau@rb3.swrcb.ca.gov  
DoD Project Manager: Jerry Vincent  
E-mail/Phone No. gvincent@spk.usace.army.mil\_\_\_\_\_

DoD former Prj. Mgr. Kevin Kratzke /s/  
Date: 13 January, 2000  
DoD Prj. Manager: Jerry Vincent /s/  
Date: 5 January 2000

---

\* For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

**TWO-YEAR JOINT CA EXECUTION PLAN**Service DEFENSE ENERGY SUPPORT CENTERName of Installation DFSP San Pedro

Funding Source

Project Tank Farm, Administration and Pump House AreasState CaliforniaDERP   **Water Board Lead, PCA # 166-37**BRAC   BRAC II   BRAC III   DWCF X

CA Period 1 JUL 00 – 30 JUN 02

**YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01****WORK DESCRIPTION:**

- Long Term Monitoring (LTM) of groundwater underlying the Tank Farm, Administration and Pump House area. [ 1 ]
- Long Term Monitoring (LTM) of the remediation system. [ 1 ]
- Review and comment ongoing remediation system installation. [ 2 ]
- Community Involvement [ 1 ]

**DELIVERABLES:**

- Semi-annual Groundwater Monitoring Reports [ 2 ]
- Quarterly Remediation System Status Reports [ 2 ]
- Remediation system installation reports [ 2 ]

**MEETINGS:**

- RAB Meetings (yearly) [ 2 ]
- RPM Meetings (as needed) [ 2 ]

**ADDITIONAL STATE ACTIVITIES:**

- Site Visits [ 2 ]
- Provide technical review of the documents submitted [ 2 ]
- Attend RAB Meeting [ 2 ]

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.  
Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

<b>YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02</b>
<b>WORK DESCRIPTION:</b> <ul style="list-style-type: none"> <li>• Long Term Monitoring (LTM) of groundwater underlying the Tank Farm, Administration and Pump House area.</li> <li>• Long Term Monitoring (LTM) of the remediation system.</li> <li>• Conduct remediation activities at the administration area.</li> <li>• Community Involvement</li> </ul>
<b>DELIVERABLES:</b> <ul style="list-style-type: none"> <li>• Quarterly Groundwater Monitoring Reports</li> <li>• Semi-annual Remediation System Status Reports</li> <li>• Remedial Investigation Work Plan (Draft and Final)</li> <li>• Remedial Investigation Report (Draft and Final)</li> </ul>
<b>MEETINGS:</b> <ul style="list-style-type: none"> <li>• RAB Meetings (yearly)</li> <li>• RPM Meetings (as needed)</li> </ul>
<b>ADDITIONAL STATE ACTIVITIES:</b> <ul style="list-style-type: none"> <li>• Site Visits</li> <li>• Provide technical review of the documents submitted</li> <li>• Attend RAB Meetings</li> </ul>

State Project Manager G Jeffery Hu  
E-mail/Phone No. [ghu@rb4.swrcb.ca.gov](mailto:ghu@rb4.swrcb.ca.gov) / (213) 576-6736 Date: 12/31/00

DoD Project Manager Hasan Dogrul  
E-mail/Phone No. [hdogrul@desc.dla.mil](mailto:hdogrul@desc.dla.mil) / (703) 767-8308 Date: 11/10/99

Annual Review Update \_\_\_\_\_ (Pen and ink changes, date/initial or rewrite)

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.  
Status Legend:  
[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

**TWO-YEAR JOINT CA EXECUTION PLAN**

Service DEFENSE ENERGY SUPPORT CENTER  
 Name of Installation DFSP Norwalk  
 Project Tank Farm  
 State California  
**Water Board Lead, PCA # 166-38**

Funding Source

DERP \_\_\_\_\_  
 BRAC \_\_\_\_\_  
 BRAC II \_\_\_\_\_  
 BRAC III \_\_\_\_\_  
 DWCF X

CA Period 1 JUL 00 – 30 JUN 02

<b>YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01</b>
WORK DESCRIPTION: <ul style="list-style-type: none"> <li>• Long Term Monitoring (LTM) of groundwater underlying the Tank Farm [ 1 ]</li> <li>• Conduct Groundwater Modeling &amp; Risk Assessment [ 4 ]</li> <li>• LTM of remediation system [ 1 ]</li> <li>• Review and comment on ongoing remediation system installation [ 2 ]</li> <li>• Community Involvement [ 1 ]</li> </ul>
DELIVERABLES: <ul style="list-style-type: none"> <li>• Quarterly Groundwater Monitoring Reports [ 2 ]</li> <li>• Quarterly Remediation System Status Reports [ 2 ]</li> <li>• Groundwater Modeling &amp; Risk Assessment Report (Draft and Final) [ 4 ]</li> </ul>
MEETINGS: <ul style="list-style-type: none"> <li>• RAB Meetings [2]</li> <li>• RPM Meetings (as needed) [2]</li> </ul>
ADDITIONAL STATE ACTIVITIES: <ul style="list-style-type: none"> <li>• Site Visits</li> <li>• Provide technical review of the documents submitted</li> <li>• Attend RAB Meetings</li> </ul>

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

<b>YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02</b>
WORK DESCRIPTION: (1) Long Term Monitoring (LTM) of groundwater underlying the Tank Farm (2) LTM of remediation system (3) Community Involvement (4) Conduct site assessment activities at the sludge pit area, truck rack area, areas underlying aboveground storage tanks and other potential areas of concern.
DELIVERABLES: Semi-annual Groundwater Monitoring Reports
Semi-annual Remediation System Reports
Site Investigation Work Plan (Draft and Final)
Site Investigation Report (Draft and Final)
MEETINGS: RAB Meetings
RPM Meetings (as needed)
ADDITIONAL STATE ACTIVITIES: Site Visits
Provide technical review of the documents submitted
Attend RAB Meetings

State Project Manager Ana TownsendE-mail/Phone No. [aveloz@rb4.swrcb.ca.gov/](mailto:aveloz@rb4.swrcb.ca.gov/) (213) 576-6738 Date: 12/31/00DoD Project Manager Hasan DogrulE-mail/Phone No. [hdogrul@desc.dla.mil/](mailto:hdogrul@desc.dla.mil/) (703)767-8308 Date: 11/10/99

Annual Review Update\_\_\_\_\_ (Pen and ink changes, date/initial or rewrite)

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.



## Two-Year Joint CA Execution Plan

Service <u>DERP-FUDS</u>	
Name of Installation <u>NIKE 29</u>	Funding Source
Project, or Operable Unit <u>J09CA0420</u>	
State <u>CA</u>	DERP <u>X</u>
<b>Water Board Lead, PCA #169-42</b>	BRAC 1 <u>      </u>
	BRAC 2 <u>      </u>
	BRAC 3 <u>      </u>
	BRAC 4 <u>      </u>

CA Period 1 JUL 00 – 30 JUN 02

YEAR 1 July 1, 2000 to June 30, 2001		
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
<b>BD/DR Project</b>  (Remedial Design/ Remedial Action)	Work Plan [ 2 ] Scope Design [ 2 ] Remedial Design [ 2 ] Site Safety/Health Plans [ 2 ] Remedial Action Plan/Reports [ 2 ] Community Relations [ 2 ]	<ul style="list-style-type: none"> <li>• Conduct technical reviews</li> <li>• Attend comment resolution meetings</li> <li>• Identify ARARS</li>   <li>• Screen alternatives</li> <li>• Attend RAB Meetings as scheduled</li> </ul>

YEAR 2 July 1, 2001 to June 30, 2002		
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
<b>BD/DR Project</b>  <b>HTRW Project</b>  (Remedial Design/Remedial Action)  (Remedial Actions Operations)	None, Project Complete  Site Health/Safety Plans Design and Construction Reports  Workplan RA Operational Plans/Reports  Community Relations	<ul style="list-style-type: none"> <li>• Conduct technical reviews</li> <li>• Attend comment resolution meetings</li>   <li>• Conduct technical review</li> <li>• Negotiate schedule for RD/RA</li> <li>• Attend comment resolution meetings</li>   <li>• Attended RAB Meetings as scheduled</li> </ul>

State Project Manager Manjulika ChakrabartiE-mail/Phone No. [mchakrabar@rb4.swrcb.ca.gov](mailto:mchakrabar@rb4.swrcb.ca.gov) (213)576-6722 Date: 12/31/00DoD Project Manager Mike Metro for Debra CastensE-mail/Phone No. [dcastens@spl.usace.army.mil](mailto:dcastens@spl.usace.army.mil) / (213) 452-3993 Date: 11/10/99

\*\*F was submitted as worksheet

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.  
 Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

## Two-Year Joint CA Execution Plan

Service DERP-FUDS  
 Name of Installation OXNARD AFB-CAMARILLO  
 Project, or Operable Unit J09CA0126 Landfill & Burn Pit  
 State CA  
**Water Board Lead, PCA #169-43**

Funding Source  
 DERP X  
 BRAC 1         
 BRAC 2         
 BRAC 3         
 BRAC 4       

CA Period 1 JUL 00 – 30 JUN 02

YEAR 1	July 1, 2000 to June 30, 2001	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
<b>HTRW Project</b>		
RI/FS	Draft/Final Reports Decision Document  Community Relations	<ul style="list-style-type: none"> <li>• Conduct technical review [2]</li> <li>• Screen alternatives [1]</li> <li>• Review closure request [1]</li> <li>• Attend comment resolution meetings [4]</li> </ul>

YEAR 2	July 1, 2001 to June 30, 2002	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
<b>HTRW Project</b>		
Long Term Monitoring	Workplan Report	<ul style="list-style-type: none"> <li>• Conduct technical reviews</li> <li>• Attend comment resolution meetings</li> </ul>

State Project Manager Peter Raftery  
 E-mail/Phone No. [praftery@rb4.swrcb.ca.gov](mailto:praftery@rb4.swrcb.ca.gov) / (213) 576-6738 Date: 12/31/00

DoD Project Manager Mike Metro for Debra Castens  
 E-mail/Phone No. [dcastens@spl.usace.army.mil](mailto:dcastens@spl.usace.army.mil) / (213) 452-3990 Date: 11/10/99

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.  
 Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

## Two-Year Joint CA Execution Plan

**Note: RB staff have had no involvement w/ this site during the last 12 months and no plans exist for involvement**

Service <u>DERP-FUDS</u>	Funding Source
Name of Installation <u>CAMARILLO</u>	
Project, or Operable Unit <u>J09CA0126 Hendershot School</u>	
State <u>CA</u>	DERP <u>X</u>
	BRAC 1 <u>    </u>
	BRAC 2 <u>    </u>
	BRAC 3 <u>    </u>
	BRAC 4 <u>    </u>

CA Period 1 JUL 00 – 30 JUN 02

YEAR 1 July 1, 2000 to June 30, 2001		
<u>Milestones</u>  <b>HTRW Project</b>  RI/FS	<u>Tasks</u>  Draft/Final Reports Decision Document  Community Relations	<u>State DSMOA Services</u>  <ul style="list-style-type: none"> <li>• Conduct technical reviews</li> <li>• Screen Alternatives</li> <li>• Review UST status and evaluate request for closure</li> <li>• Attend comment resolution meetings</li> </ul>

YEAR 2 July 1, 2001 to June 30, 2002		
<u>Milestones</u>  <b>HTRW Project</b>  Long Term Monitoring	<u>Tasks</u>  Workplan Report	<u>State DSMOA Services</u>  <ul style="list-style-type: none"> <li>• Conduct technical reviews</li> <li>• Attend comment resolution meetings</li> </ul>

State Project Manager Peter Raftery  
 E-mail/Phone No. [praftery@rb4.swrcb.ca.gov](mailto:praftery@rb4.swrcb.ca.gov) / (213) 576-6738 Date: 11/10/99

DoD Project Manager Mike Metro for Debra Castens  
 E-mail/Phone No. [dcastens@spl.usace.army.mil](mailto:dcastens@spl.usace.army.mil) / (213) 452-3990 Date: 11/10/99

\*\*F was submitted as worksheet

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.  
 Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

**TWO-YEAR JOINT CA EXECUTION PLAN\***Service NAVYName of Installation Defense Fuel Support Point, San Pedro (DFSP)

Funding Source

Project Operable Unit Sites 3A,3B & 6State CaliforniaDERP XX**Water Board Lead, PCA # 169-47**

BRAC 1 \_\_\_\_\_

BRAC 2 \_\_\_\_\_

BRAC 3 \_\_\_\_\_

BRAC 4 \_\_\_\_\_

CA Period 1 JUL 00 – 30 JUN 02

**YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01****WORK DESCRIPTION:**

- Install and monitor groundwater monitoring wells at the three IR Sites at DFSP San Pedro (Sites 3A, 3B, and 6) [ 4 ]
- Long Term Monitoring (LTM) of groundwater underlying sites 3A, 3B and 6 [ 1 ]
- Conduct an Ecological Risk Assessment [ 4 ]
- Community Involvement [ 1 ]

**DELIVERABLES:**

- Groundwater Monitoring Well Installation Work Plan (Draft and Final) [ 4 ]
- Report on the well installation activities (Draft and Final) [ 4 ]
- LTM Groundwater reports (quarterly) [ 1 ]
- Ecological Risk Assessment Report (Draft and Final) [ 4 ]

**MEETINGS:**

- RAB Meetings (yearly) [ 2 ]
- RPM Meetings (as needed) [ 2 ]

**ADDITIONAL STATE ACTIVITIES:**

- Site/Field Visits [ 2 ]
- Review reports and deliverables [ 2 ]
- Attend RAB Meetings [ 2 ]

**YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02****WORK DESCRIPTION:**

- Long Term Monitoring (LTM) of the groundwater underlying Sites 3A, 3B, 6
- Evaluate remedial action activities for site 3A
- Community Involvement

**DELIVERABLES:**

- Quarterly monitoring reports (LTM) for Sites 3A, 3B, 6
- Remedial Action Plan (RAP) for the former disposal areas (Draft and Final)
- RAP Implementation Reports

**MEETINGS:**

- RAB Meetings (yearly)
- RPM Meetings (as needed)

**ADDITIONAL STATE ACTIVITIES:**

- Site/Field Visits
- Review reports and deliverables
- Attend RAB Meetings

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

State Project Manager G Jeffery Hu

E-mail/Phone No. [ghu@rb4.swrcb.ca.gov](mailto:ghu@rb4.swrcb.ca.gov) / (213) 576-6736 Date: 12/31/00

DoD Project Manager Ed Dienzo

E-mail/Phone No. [dienzoem@efdsb.navfnavy.mil](mailto:dienzoem@efdsb.navfnavy.mil) / (619)532-4714 Date: 11/10/99

**TWO-YEAR JOINT CA EXECUTION PLAN**Service USACE, Sacramento DistrictName of Installation Titan 1A

Funding Source

Project, or Operable Unit Long-Term MonitoringState CaliforniaDERP X**Water Board Lead, PCA # 169-51**

CA Period 1 JUL 00 – 30 JUN 02

<b>YEAR 1</b>	<b>July 1, 2000 to June 30, 2001</b>	
<u>Milestones</u>	<u>Tasks/Status</u>	<u>State DSMOA Services</u>
RI	Finish Remedial Investigation and RI Report <b><u>Status-[2]</u></b>	Review and comment
Work Plan	Remedial Option Evaluation Work Plan and Action Memo <b><u>Status-[2]</u></b>	Review and comment on Work Plan and Action Memo Prepare CEQA documentation. Identify substantive requirements of NPDES permit
FS	Feasibility Study-pilot study ongoing <b><u>Status-[1]</u></b>	Conduct technical reviews of data and issue comments
	Public Meeting (1) <b><u>Status-[2]</u></b>	Attend Public Meeting
	Meetings (6) <b><u>Status-[1]</u></b>	Attend Technical Review Meetings

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

<b>YEAR 2</b>	<b>July 1, 2001 to June 30, 2002</b>	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
FS	Finish pilot study, determine best RA approach	Review technical memorandum that presents pilot study results Issue comment letter
FS	Finalize FS	Review and write approval letter
RAP	Remedial Action Plan	Review RAP. Meet with the Army to negotiate terms and conditions. Write comment letter.
RA (LTM)	Quarterly Groundwater Monitoring (4)	Review and comment on groundwater monitoring reports
	Public Meeting (1)	Attend public meeting
	Meetings	Attend Technical Review Meetings

State Project Manager James Barton  
E-mail/Phone No. [bartonj@rb5s.swrcb.ca.gov](mailto:bartonj@rb5s.swrcb.ca.gov) / (916) 255-3050 \_\_\_\_\_ Date: 12/27/00 \_\_\_\_

DoD Project Manager Brenda Pedersen  
E-mail/Phone No. [BPedersen@spk.usace.army.mil](mailto:BPedersen@spk.usace.army.mil) / (916) 557- 6771 \_\_\_\_\_ Date: 12/27/00 \_\_\_\_

- 
- For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

**TWO-YEAR JOINT CA EXECUTION PLAN**

Service \_\_USACE, Sacramento District\_\_\_\_\_

Name of Installation \_\_Titan 1C\_\_\_\_\_

Funding Source

Project, or Operable Unit Long-Term Monitoring\_\_\_\_\_

State \_\_California\_\_\_\_\_

DERP X\_\_\_\_\_

**Water Board Lead, PCA #169-54**

CA Period 1 JUL 00 – 30 JUN 02

<b>YEAR 1</b>	<b>July 1, 2000 to June 30, 2001</b>	
<u>Milestones</u>	<u>Tasks/Status</u>	<u>State DSMOA Services</u>
Closure Report	Abandon wells/fill in USTs <b><u>Status-[4]</u></b>	Review Work Plan and comment
	Site Closure Report <b><u>Status-[4]</u></b>	Review and issue closure letter
	Meetings (4) <b><u>Status-[1]</u></b>	Attend technical meetings
	Public Meeting (1) <b><u>Status-[4]</u></b>	Attend public meeting

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.



YEAR 2	July 1, 2001 to June 30, 2002	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
	Site Closure/ No Further Action	Review and issue comments
	Meeting (2)	Attend technical meeting
	Public Meeting (1)	Attend public meeting

State Project Manager James Barton  
E-mail/Phone No. [bartonj@rb5s.swrcb.ca.gov](mailto:bartonj@rb5s.swrcb.ca.gov) / (916) 255-3050 Date: 12/27/00

DoD Project Manager Brenda Peterson  
E-mail/Phone No. [BPedersen@spk.usace.army.mil](mailto:BPedersen@spk.usace.army.mil) / (916) 557- 6771 Date: 12/27/00

- 
- For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

**TWO-YEAR JOINT CA EXECUTION PLAN**

Service USACE, Sacramento District  
 Name of Installation Titan 1B  
 Project, or Operable Unit Long-Term Monitoring  
 State California

Funding Source

DERP X**Water Board Lead, PCA #169-55**

CA Period 1 JUL 00 – 30 JUN 02

<b>YEAR 1</b>	<b>July 1, 2000 to June 30, 2001</b>	
<u>Milestones</u>	<u>Tasks/Status</u>	<u>State DSMOA Services</u>
Closure Report	Fill in USTs <b>Status-[2]</b>	Review and comment
	Site Closure Report (to include UST Closure Report and RA report) <b>Status-[1]</b>	Review and issue closure letter
	Meetings (4) <b>Status-[1]</b>	Attend technical meetings
	Public Meeting (1) <b>Status-[4]</b>	Attend public meeting

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

<b>YEAR 2</b>	<b>July 1, 2001 to June 30, 2002</b>	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
	No Further Action	

State Project Manager \_James Barton\_\_\_\_\_  
E-mail/Phone No. [bartonj@rb5s.swrcb.ca.gov](mailto:bartonj@rb5s.swrcb.ca.gov) /(916) 255-3050\_\_\_\_Date: 12/27/00

DoD Project Manager \_Brenda Peterson\_\_\_\_\_  
E-mail/Phone No. \_ [BPedersen@spk.usace.army.mil](mailto:BPedersen@spk.usace.army.mil) /(916) 557- 6771 \_\_\_\_Date: 12/27/00

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**For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review**

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

**TWO-YEAR JOINT CA EXECUTION PLAN**Service USACE, Sacramento DistrictName of Installation D.Q. University

Funding Source

Project, or Operable Unit Long-Term MonitoringState California DERP

X

**Water Board Lead, PCA #169-59**

CA Period 1 JUL 00 – 30 JUN 02

<b>YEAR 1</b>	<b>July 1, 2000 to June 30, 2001</b>	
<u>Milestones</u>	<u>Tasks/Status</u>	<u>State DSMOA Services</u>
Long-Term Monitoring	Quarterly Groundwater Monitoring (4) <b><u>STATUS-[4]</u></b>	Review and comment four times a year on the submitted groundwater monitoring reports.
	Develop accurate O&M cost estimate for future budgeting <b><u>STATUS-[1]</u></b>	
	Periodic review of compliance w/project goals <b><u>STATUS-[1]</u></b>	Review current progress and meet with Federal agency to discuss the details and progress of the project.
	Bi-annual meetings (2) <b><u>STATUS-[1]</u></b>	Technical Review Meetings to discuss the contents of the quarterly report and to determine if additional work is required.

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

<b>YEAR 2</b>	<b>July 1, 2001 to June 30, 2002</b>	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
Long-Term Monitoring	Quarterly Groundwater Monitoring (4)	Review and comment four times a year on the submitted groundwater monitoring reports.
	Develop accurate O&M cost estimate for future budgeting	
	Periodic review of compliance w/project goals	Review current progress and meet with Federal agency to discuss the details and progress of the project.
	Bi-annual Meetings (2)	Technical Review Meetings to discuss the contents of the quarterly report and to determine if additional work is required.

State Project Manager \_\_James Barton\_\_\_\_\_

E-mail/Phone No. (916) [255-3050](tel:255-3050) [bartonj@rb5s.swrcb.ca.gov](mailto:bartonj@rb5s.swrcb.ca.gov) Date: 12/27/00

DoD Project Manager \_\_Peter Broderick\_\_Program Manager for Jerry Vincent

E-mail/Phone No. (916) 557-7430\_\_pbroderick@spk.usace.army.mil\_\_\_\_\_ Date: \_12/27/00\_\_\_\_\_

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\* For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

## TWO-YEAR JOINT CA EXECUTION PLAN

Name of Installation

Mountain Warfare Training Center, Bridgeport

Funding Source

Service

U.S. Navy

DERA XX

BRAC \_\_\_\_\_

BRAC II \_\_\_\_\_

BRAC III \_\_\_\_\_

BRAC IV \_\_\_\_\_

**Water Board Lead, PCA # 166-58**

List all major milestones occurring at the installation for years 1 and 2.

**YEAR 1 (FY00/01)**

[illegible]

**(0) Completed Milestone**

\*\* Upper Base Camp (UBC) Unit consists of Sites 2, 6, and UST 1021

**YEAR 2 (FY01/02)**

( ) Quarterly Corrective Action Operations reports for UBC Unit** and UST 7007
( ) Quarterly Corrective Action Operations report for Site 4
( ) 2001 annual groundwater monitoring summary report
( ) Quarterly program conference calls/interagency meetings

**(0) Completed Milestone**

\*\* Upper Base Camp (UBC) Unit consists of Sites 2, 6, and UST 1021

State Project Manager \_\_\_\_\_ Date \_\_\_\_\_  
Tammy Lundquist, AEG

DOD Project Manager \_\_\_\_\_ Date \_\_\_\_\_  
Jerry Dunaway, PE

Date of Plan or Update: September 29, 1999

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

**TWO-YEAR JOINT CA EXECUTION PLAN**

Service Air Force Base Conversion Agency  
 Name of Installation George AFB Funding Source  
 Project, or Operable Unit Reuse Activities  
 State CA  
**Water Board Lead, PCA # 166-61**

DERP \_\_\_\_\_  
 BRAC X  
 BRAC 2 \_\_\_\_\_  
 BRAC 3 \_\_\_\_\_  
 BRAC 4 \_\_\_\_\_

List all major milestones occurring at the installation for years 1 and 2

<b>YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01</b>	
Dieldrin preliminary assessment/site evaluation report	<b>[1]</b>
Leaking underground storage tanks close-out reports	<b>[1]</b>
Well abandonment reports	<b>[1]</b>
RPM meetings	<b>[1]</b>
Status reports to Regional Water Quality Control Board	<b>[1]</b>
FOST X8	<b>[1]</b>
Current Skeet Range – Site Characterization Report	<b>[1]</b>
AFBCA Program Review (Washington)	<b>N/A</b>
Level of effort: Same	

<b>YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02</b>	
Leaking underground storage tanks close-out reports	
RPM meetings	
Status reports to Regional Water Quality Control Board	
AFBCA Program Review (Washington)	
Level of effort: Same	

State Project Manager /s/ Mike Plaziak Date: 01/04/00  
 DoD Project Manager /s/ (not legible) Date: 12/15/99

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

**TWO-YEAR JOINT CA EXECUTION PLAN**

Service Air Force Base Conversion Agency  
 Name of Installation George AFB Funding Source  
 Project, or Operable Unit **Operable Unit Three**  
 State CA

DERP  
 BRAC X  
 BRAC 2  
 BRAC 3  
 BRAC 4

List all major milestones occurring at the installation for years 1 and 2

<b>YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01</b>	
Draft BWGWM report – Oct 00	<b>[ 2 ]</b>
Draft BWGWM report – April 01	<b>[ 1 ]</b>
Draft long-term maintenance and monitoring plan – landfill	<b>[ 2 ]</b>
Revised final RD/RA work plan	<b>[ 1 ]</b>
Draft SAP addendum accelerated action site O&M sampling	<b>[ 1 ]</b>
Draft revised accelerated action site O&M manual	<b>[ 1 ]</b>
Site WP-17 Draft confirmation sampling/closure report	<b>[ 1 ]</b>
Site FT-19a Draft confirmation sampling/closure report	<b>[ 1 ]</b>
Status review meetings	<b>[ 1 ]</b>
OT-51 Remediation Optimization Evaluation Report	<b>[ 1 ]</b>
Site 19c Draft confirmation sampling work plan/SAP addendum	<b>[ 1 ]</b>
OT-69 Remedial Evaluation	<b>[ 1 ]</b>
Field oversight	<b>[ 1 ]</b>
Level of effort: Same	

<b>YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02</b>	
Draft BWGWM report – Oct 01	
Draft BWGWM report – April 02	
Field oversight and sampling activities	
Ground water monitoring reports – landfill x 2 per FY	
Draft BWGWM SAP Addendum – Oct 01	
Draft BWGWM SAP Addendum – April 02	
Status review meetings	
Level of effort: Same	

State Project Manager /s/ Mike Plaziak Date: 01/04/00  
 DoD Project Manager /s/ Date: 12/15/99

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.



**TWO-YEAR JOINT CA EXECUTION PLAN**

Service Air Force Base Conversion Agency  
 Name of Installation George AFB Funding Source  
 Project, or Operable Unit **Operable Unit Two**  
 State CA

DERP  
 BRAC X  
 BRAC 2  
 BRAC 3  
 BRAC 4

List all major milestones occurring at the installation for year 1 and 2

<b>YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01</b>	
Pilot Study SVE workplan (EE/CA) [ 2 ]	
Status review meetings [ 1 ]	
Technical report O&M [ 1 ]	
Field oversight and sampling activities [ 1 ]	
Ground water monitoring reports x 2 per FY 1= [ 2 ]; 2 = [ 1 ]	
FT-20 Data gaps TCE investigation WP [ 1 ]	
PP/FS/ROD [ 1 ]	
Level of effort: Same	

<b>YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02</b>	
Ground water monitoring reports x 2 per FY	
Status review meetings	
Field oversight and sampling activities	
Upgraded SVE Workplan	
O&M Reports	
Level of effort: Lower	

State Project Manager /s/ Mike Plaziak Date: 01/04/00  
 DoD Project Manager /s/ Date: 12/15/99

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

(Recreated from 02/29/00 FAX copy)

**TWO-YEAR JOINT CA EXECUTION PLAN**Service Air Force Base Conversion AgencyName of Installation George AFBProject, or Operable Unit **Operable Unit One**State CA

Funding Source

DERP	_____
BRAC	<u>X</u>
BRAC 2	_____
BRAC 3	_____
BRAC 4	_____

List all major milestones occurring at the installation for years 1 and 2

<b>YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01</b>	
Remediation Process Optimization Report [ 1 ]	
System performance and monitoring reports x 4 per FY 2 = [ 2 ]; 2 = [ 1 ]	
Status review meetings [ 1 ]	
System upgrade and modification work plans [ 1 ]	
Field oversight and sampling activities [ 1 ]	
Ground water monitoring reports x 2 per FY 1 = [ 2 ]; 1 = [ 1 ]	
Data Gaps Investigation [ 1 ]	
5 year ROD review (Jan 2001) [ 1 ]	
Level of effort: Same	

<b>YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02</b>	
System performance and monitoring reports x 4 per FY	
System upgrade and modification workplans	
Ground water monitoring reports x 2 per FY	
Field oversight and sampling activities	
Status review meetings	
Data Gaps Investigations	
OP&S Review	
Level of effort: Lower	

State Project Manager /s/ Mike Plaziak Date: 01/04/00DoD Project Manager /s/ Date: 12/15/99

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

**Water Board Lead, PCA # 166-65****TWO-YEAR JOINT CA EXECUTION PLAN**

<b>Name of Installation, Project, or Operable Unit</b>		<b>Funding Source</b>		
Marine Corps Air Ground Combat Center,		DERA	X	
(MCAGCC Twentynine Palms, California)		BRAC		
		BRAC II		
<b>Service</b>		BRAC III		
NAVY		BRAC IV		
List all major milestones occurring at the installation for current year and years 1 and 2.				
<b>CURRENT YEAR (FY 99/00)</b>				
Abandon monitoring well (and/or soil vents, or gas monitoring points) at IR Sites: 2, 3, 17 Alpha, 17 Bravo, 17 Charlie, 19, 22, and former Mainside UST sites at buildings 1400, 1420, 1440, 1573, 1630. The well abandonment is dependent on funding and may continue into 2001.				
O & M Bioremediation Facility.				
Groundwater monitoring at "sensitive sites".				
Removal Action at IR Site 4.				
Site Closure. IR Sites 4, 5, 6, 7, 9, 10, 12, 23, 24, 26, 32-39, and 48.				
Site Assessment. UST Sites 2024 and 2044.				
Site Closure. UST Sites 55, 63, 1816, 2024 and 2044.				
MTBE Site Evaluation and Close-outs (113 possible sites).				
Monitoring well abandonment reports.				
Bioventing investigation/screening at Site 1573. Pursue closure under RCRA.				
Removal/remediation at IR Sites: 3, 9, 25, and 30. Pursue closure under RCRA.				
Develop UXO program. Implement long term monitoring of ordinance residuals on active ranges.				
UXO-OFF Base Responses.				
Evaluate and remediate Sites 18 and 1138. Reduce/remove contamination to soil, and implement RNA. Periodically monitor groundwater and soil-gas to track progress of RNA.				
Background Concentrations Assessment				
<b>YEAR 1 (FY 00/01)</b>				
Abandon monitoring well (and/or soil vents, or gas monitoring points) at IR Sites: 2, 3, 17 Alpha, 17 Bravo, 17 Charlie, 19, 22, and former Mainside UST sites at buildings 1400, 1420, 1440, 1573, 1630. The well abandonment is dependent on funding and may continue into 2001.				
O & M Bioremediation Facility. [ 1 ]				
Groundwater monitoring at "sensitive sites". [ 1 ]				
Site Closure. IR Sites 4, 5, 6, 7, 9, 10, 12, 23, 24, 26, 32-39, and 48. [ 4 ]				
Site Closure. UST Sites 55, 63, 1816, 2024 and 2044. [ 4 ]				
MTBE Site Evaluation and Close-outs (113 possible sites). [ 4 ]				

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

Monitoring well abandonment reports. [ 1 ]					
Bioventing investigation/screening at Site 1573. Pursue closure under RCRA. [ 4 ]					
Removal/remediation at IR Sites: 3, 9, 25, and 30. Pursue closure under RCRA. [ 4 ]					
Develop UXO program. Implement long term monitoring of ordinance residuals on active ranges. [ 4 ]					
UXO-OFF Base Responses. [ 4 ]					
Evaluate and remediate Sites 18 and 1138. Reduce/remove contamination to soil, and implement RNA. Periodically monitor groundwater and soil-gas to track progress of RNA. [ 4 ]					
Background Concentrations Assessment [ 1 ]					
<b><u>Name of Installation, Project, or Operable Unit</u></b>		<b><u>Funding Source</u></b>			
Marine Corps Air Ground Combat Center,		DERA	X		
(MCAGCC Twentynine Palms, California)		BRAC			
		BRAC II			
<b><u>Service</u></b>		BRAC III			
<b><u>NAVY</u></b>		BRAC IV			
<b>YEAR 2 (FY 01/02)</b>					
Abandon monitoring well (and/or soil vents, or gas monitoring points) at IR Sites: 2, 3, 17 Alpha, 17 Bravo, 17 Charlie, 19, 22, and former Mainside UST sites at buildings 1400, 1420, 1440, 1573, 1630. The well abandonment is dependent on funding and may continue into 2001.					
O & M Bioremediation Facility.					
Groundwater monitoring at "sensitive sites".					
Site Closure. IR Sites 4, 5, 6, 7, 9, 10, 12, 23, 24, 26, 32-39, and 48.					
Site Closure. UST Sites 55, 63, 1816, 2024 and 2044.					
MTBE Site Evaluation and Close-outs (113 possible sites).					
Bioventing investigation/screening at Site 1573. Pursue closure under RCRA.					
Removal/remediation at IR Sites: 3, 9, 25, and 30. Pursue closure under RCRA.					
Implement long term monitoring of ordinance residuals on active ranges.					
UXO-OFF Base Responses.					
Evaluate and remediate Sites 18 and 1138. Reduce/remove contamination to soil, and implement RNA. Periodically monitor groundwater and soil-gas to track progress of RNA.					
DTSC Project Manager	Douglas Bautista		Date	10/12/99	
RWQCB Project Manager	David Virgina		Date	3/9/01	
DOD Project Manager	Chris Gonzalez		Date	9/30/99	
Date of Plan or Update	9/30/99				

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

## TWO-YEAR JOINT CA EXECUTION PLAN

**Name of Installation:**Salton Sea Test Base, Imperial Valley, CA**Service:**U.S. Navy**Water Board Lead, PCA # 166-66****Funding Source:**

DERA	_____
BRAC	_____X_____
BRAC II	_____
BRAC III	_____
BRAC IV	_____

**YEAR 1 (FY00/01)** List all major milestones occurring at the installation for years 1 and 2.

UXO Decision Document (IMPLEMENTATION)	[ 2 ]
Miscellaneous wrap-up tasks (low level effort items)	[ 1 ]

**YEAR 2 (FY01/02)**

* NO ACTIVITIES EXPECTED *

RWQCB Project Manager David Virginia Date March 9, 2001  
David Virginia

DOD Project Manager Mike Radecki Date December 3, 1999  
Mike Radecki

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

**TWO-YEAR JOINT CA EXECUTION PLAN\***Service: Army National GuardName of Installation: Los Alamitos JFTC (formerly AFRC)Funding Source: DERAProject, or Operable Unit: OU-1, OU-2, & OU-3State: California**Water Board Lead, PCA # 169-82**

DERP	<u>  X  </u>
BRAC 1	<u>          </u>
BRAC 2	<u>          </u>
BRAC 3	<u>          </u>
BRAC 4	<u>          </u>

CA Period 1 JUL 00 – 30 JUN 02

<b>YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01</b>	
WORK DESCRIPTION:	Complete RI for OU-1, OU-2 & OU-3; <b>Status = 1</b>
	Continue O&M for IRAs in OU-1 and petroleum sites (seven systems); <b>Status = 1</b>
	Complete RI for Petroleum only Sites; <b>Status = 1</b>
	Decision Documents for OU-1 IRAs; <b>Status = 2</b>
DELIVERABLES:	Draft RI Reports for OU-1, OU-2 & OU-3; <b>Status = 1</b>
	Draft RI for Petroleum only Sites; <b>Status = 1</b>
	Quarterly GW Monitoring and O&M Reports <b>Status = 1</b>
	Annual Summary GW Monitoring and O&M Reports <b>Status = 2</b>
	Installation Action Plan <b>Status = 1</b>
MEETINGS:	Monthly RPM meetings; Quarterly RAB Meetings; Required public meeting and public notice <b>Status = 1</b>
ADDITIONAL STATE ACTIVITIES:	Technical site visits; RMA and GW Monitoring Review: Technical and Regulatory Review, Annual In Progress Review, Annual Partnering meeting
	<b>Status = 2 for all these activities, except Annual Partnering mtg., for which status = 1</b>

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

<b>YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02</b>
WORK DESCRIPTION: FS and PP for OU-3; Complete an EE/CA for OU-3; Proposed Plan for OU-3; Continue O&M for IRAs in OU-1 and petroleum sites (seven systems)
DELIVERABLES: Draft FS/EE/CA Reports for OU-3; Proposed Plan Documents; Quarterly GW Monitoring and O&M Reports; Annual Summary GW Monitoring and O&M Reports; Installation Action Plan
MEETINGS: Monthly RPM meetings; Quarterly RAB Meetings; Required public meeting and public notice
ADDITIONAL STATE ACTIVITIES: Technical site visits, RMA and GW monitoring review, technical and regulatory review.

State Project Manager \_John Broderick\_\_\_\_\_

E-mail/Phone No. [jbroderic@rb8.swrcb.ca.gov](mailto:jbroderic@rb8.swrcb.ca.gov) / 909 782-4494\_ Date: \_12/8/99 \_\_\_\_\_

DoD Project Manager \_Guy Romine\_\_\_\_\_

E-mail/Phone No. [LAAFRCA@aol.com](mailto:LAAFRCA@aol.com) 562-795-2821 Date: 8 Dec 1999 \_\_\_\_\_

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

**TWO-YEAR JOINT CA EXECUTION PLAN**Service: **Navy**Name of Installation: **Outlying Landing Field (OLF) Imperial Beach**Project or Operable Unit: **Site 6**State: **California****Water Board Lead, PCA # 166-77**

Funding Source

DERP   **X**  BRAC 1           BRAC 2           BRAC 3           BRAC 4           

CA Period 1 JUL 00 – 30 JUN 02

<b>YEAR 1</b>	<b>July 1, 2000 to June 30, 2001</b>	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
Extended Site Inspection Workplan	Prepare and implement ESI Workplan <b>Status [4]</b>	
<b>YEAR 2</b>	<b>July 1, 2001 to June 30, 2002</b>	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
Extended Site Inspection Report	Prepare ESI Report	

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.



Service: **Navy**Name of Installation: **Outlying Landing Field (OLF) Imperial Beach**Project or Operable Unit: **Site 7**State: **California**

Funding Source

DERP	<u>  X  </u>
BRAC 1	<u>          </u>
BRAC 2	<u>          </u>
BRAC 3	<u>          </u>
BRAC 4	<u>          </u>

CA Period 1 JUL 00 – 30 JUN 02

<b>YEAR 1</b>	<b>July 1, 2000 to June 30, 2001</b>	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
Extended Site Inspection Workplan	Prepare and implement ESI Workplan <b>Status [4]</b>	

<b>YEAR 2</b>	<b>July 1, 2001 to June 30, 2002</b>	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
Extended Site Inspection Report	Prepare ESI Report	

State Project Manager: **Dr. Charles Cheng**E-mail/Phone No.: [chenc@rb9.swrcb.ca.gov](mailto:chenc@rb9.swrcb.ca.gov)Date: 4 Oct 99DoD Project Manager: **Richard G. Mach Jr., P.E.**E-mail/Phone No.: [machrg@efds.w.navy.mil](mailto:machrg@efds.w.navy.mil)Date: 4 Oct 99

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

## TWO-YEAR JOINT CA EXECUTION PLAN\*

Service : Marine Corps

Name of Installation: MCAS Miramar

Project, or Operable Unit \_\_\_\_\_

State: California

**Water Board Lead, PCA # 166-78**

Funding Source

DERP X

BRAC 1 \_\_\_\_\_

BRAC 2 \_\_\_\_\_

BRAC 3 \_\_\_\_\_

BRAC 4 \_\_\_\_\_

CA Period 1 JUL 00 – 30 JUN 02

<b>YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01</b>
WORK DESCRIPTION: Site Assessment at UST 1 and Site 10 Atlas Missile Test Facility at MCAS Miramar, San Diego, CA
DELIVERABLES:
Draft Final and Final Site Assessment Work Plans (4) for UST 1 (IR Site 18) and Site 10 <b>Status [2]</b>
Draft Final and Final Site Assessment Reports (4) for UST 1 (IR Site 18) and Site 10 <b>Status [1]</b>
Quarterly Groundwater Monitor/Free Product Removal Reports for UST 1 (IR Site 18) <b>Status [1]</b>
MEETINGS: (optional)
Site Visits and Meetings <b>Status [1]</b>
ADDITIONAL STATE ACTIVITIES:
Public Outreach <b>Status [1]</b>

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

<b>YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02</b>
<b>WORK DESCRIPTION:</b>
Removal Evaluation Activities at UST 1 (IR Site 18), MCAS Miramar, San Diego, CA
<b>DELIVERABLES:</b>
Draft Final and Final Remedial Evaluation Work Plan / Reports (4) for UST 1 (IR Site 18)
Quarterly Groundwater Monitoring/ Free Product Removal Reports for UST 1 (IR Site 18)
<b>MEETINGS: (optional)</b>
Site Visits and Meetings
<b>ADDITIONAL STATE ACTIVITIES:</b>
Public Outreach

State Project Manager   Laurie Walsh    
 E-mail/Phone No.   walsl@rb9.swrcb.ca.gov/858-467-2970   Date:   11/1699  

DoD Project Manager   Sarah Ann Moore    
 E-mail/Phone No.   mooresa@efds.w.navy.mil/619-532-1235   Date:   11/1699  

\* For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.

Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

**TWO-YEAR JOINT CA EXECUTION PLAN\***Service **Navy**Name of Installation **Fleet Anti-Submarine Warfare Training Center Pacific**

Funding Source

Project, or Operable Unit \_\_\_\_\_

State **California****Water Board Lead, PCA # 166-82**DERP **X**

BRAC 1 \_\_\_\_\_

BRAC 2 \_\_\_\_\_

BRAC 3 \_\_\_\_\_

BRAC 4 \_\_\_\_\_

CA Period 1 JUL 00 – 30 JUN 02

**YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01**

WORK DESCRIPTION: Continue Groundwater Monitoring at UST Site (Bldg 2 &amp; 10)

Start PA/SI NTC IR Site 5

Finalize Removal Site Evaluation IR Site 2 (Former Salvage Yard)

DELIVERABLES: Quarterly Groundwater Monitoring Report UST Site 2 (Bldg 2 & 10) **Status [2]**PA/SI Work Plan NTC IR Site 5 – Draft & Final **Status [4]**Removal Site Evaluation Report for IR Site 2 – Draft & Final **Status [4]**MEETINGS: Site Visits (2) [one for each: UST Site 2 (Bldg 2 & 10), IR Site 5] **Status [1]**Story Board Meetings (2) [one for each: UST Site 2 (Bldg 2 & 10), IR Site 2] **Status [4]**Negotiation Meetings (2) [one for each: UST Site 2 (Bldg 2 & 10), IR Site 5] **Status [4]**Review Meetings (2) [one for each: UST Site 2 (Bldg 2 & 10), IR Site 5] **Status [4]**

ADDITIONAL STATE ACTIVITIES:

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.  
 Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

<b>YEAR 2 – FROM 1 JUL 01 TO 30 JUN 02</b>
WORK DESCRIPTION: Finalize PA/SI NTC IR Site 5
Start Removal Action IR Site 2
DELIVERABLES: PA/SI Report NTC IR Site 5 – Draft & Final
EE/CA and Action Memorandum IR Site 2 – Draft & Final
MEETINGS: Site Visits (2) [one for each: IR Site 2, IR Site 5]
Story Board Meetings (1) [one for IR Site 5]
Negotiation Meetings (2) [one for each: IR Site 2, IR Site 5]
Review Meetings (2) [one for each: IR Site 2, IR Site 5]
ADDITIONAL STATE ACTIVITIES:

State Project Manager Corey Walsh

E-mail/Phone No. walsc@swrcb.ca.gov Date: Nov. 16, 1999

DoD Project Manager Monica Ryan

E-mail/Phone No. ryanms@efds.w.navy.mil Date: Nov. 16, 1999

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## Appendix E

## TWO-YEAR JOINT CA EXECUTION PLAN\*

Service : Marine Corps

Name of Installation: Marine Corps Recruit Depot, San Diego

Project, or Operable Unit

State: California

Water Board Lead, PCA # 166-84

Funding Source

DERP   X  BRAC 1           BRAC 2           BRAC 3           BRAC 4           

CA Period (FY00) 1 JUL 00 – 30 JUN 02

**YEAR 1 – FROM 1 JUL 00 TO 30 JUN 01**

WORK DESCRIPTION: Site Assessment and Long Term Monitoring at UST locations UST 5 - Bldg. 514 and  
 UST 3 - former NTC Bldg. 344. (MOA currently under negotiation with NTC Bldg. 344)

## DELIVERABLES:

Draft Final and Final Site Assessment Reports for UST 5 (Bldg. 514 - MCRD Service Station) **Status [4]**Quarterly Groundwater Monitoring Reports for UST 5 (Bldg. 514) **Status [4]**Supplemental site characterization/investigation **Status [1]**Draft Final and Final Monitoring/Remediation Report for UST 3 (Bldg. 344 - Former NTC, NEX Gas Station) **Status [4]**Biannual Groundwater Monitoring Reports for UST 3 (Bldg. 344) **Status [4]**MEETINGS: (optional) **Status [4]**Site Visits and Meetings **Status [4]**

## ADDITIONAL STATE ACTIVITIES:

Public Outreach

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.  
 Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.

<b>YEAR 2 – (FY01) FROM 1 JUL 01 TO 30 JUN 02</b>
<b>WORK DESCRIPTION:</b>
Remedial Evaluation and Long Term Monitoring at UST locations at MCRD, San Diego, CA
<b>DELIVERABLES:</b>
Draft and Draft Final Remedial Evaluation Reports for UST 5 (Bldg. 514)
Quarterly Groundwater Monitoring Reports for UST 5 (Bldg. 514)
Biannual Groundwater Monitoring Reports for UST 3 (Bldg. 344)
Supplemental Site Characterization/Investigation
<b>MEETINGS: (optional)</b>
Site Visits and Meetings
<b>ADDITIONAL STATE ACTIVITIES:</b>
Public Outreach

State Project Manager Corey M. Walsh

E-mail/Phone No. [walsc@rb9.swrcb.ca.gov](mailto:walsc@rb9.swrcb.ca.gov) / 858-467-2980 Date: \_\_\_\_\_

DoD Project Manager Sarah Ann Moore

E-mail/Phone No. [mooresa@efds.w.navy.mil](mailto:mooresa@efds.w.navy.mil) / 619-532-1235 Date: \_\_\_\_\_

- \* For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

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Status Legend:

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**TWO-YEAR JOINT CA EXECUTION PLAN**

Service     USN      
 Name of Installation     FISC Pt. Loma      
 Project, or Operable Unit     Site 3; Oil Disposal Pits      
 State     CA      
**Water Board Lead, PCA # 166-91**

Funding Source

DERP     X      
 BRAC 1             
 BRAC 2             
 BRAC 3             
 BRAC 4           

CA Period 1 JUL 00 – 30 JUN 02

<b>YEAR 1</b>	<b>July 1, 2000 to June 30, 2001</b>	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
Site Investigation	Confirmation Sampling	<ul style="list-style-type: none"> <li>Conduct technical reviews <b>Status [4]</b></li> <li>Attend comment resolution meetings <b>Status [1]</b></li> </ul>
Site Closure	Closure Report	<ul style="list-style-type: none"> <li>Conduct technical reviews <b>Status [4]</b></li> <li>Attend comment resolution meetings <b>Status [1]</b></li> </ul>

<b>YEAR 2</b>	<b>July 1, 2001 to June 30, 2002</b>	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>

State Project Manager     Laurie Walsh      
 E-mail/Phone No.     walsl@rb9.swrcb.ca.gov     Date:     11/02/99    

DoD Project Manager     Ellen Casados      
 E-mail/Phone No.     [Casadosem@efds.w.navy.mil](mailto:Casadosem@efds.w.navy.mil)     Date:     11/02/99    

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**TWO-YEAR JOINT CA EXECUTION PLAN\***Service Southwest Division naval Facilities Engineering CommandName of Installation NTC San Diego

Funding Source

Project, or Operable Unit \_\_\_\_\_

State CA**Water Board Lead, PCA # 166-92**

DERP \_\_\_\_\_

BRAC 1 \_\_\_\_\_

BRAC 2 \_\_\_\_\_

BRAC 3 XXX \_\_\_\_\_

BRAC 4 \_\_\_\_\_

CA Period 1 JUL 00 – 30 JUN 02

<b>YEAR 1</b>	<b>July 1, 2000 to June 30, 2001</b>	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
FOST	Final Finding of Suitability to Transfer for Parcel VI, Waterfront & Recreation Area <b>Status [2]</b>	<ul style="list-style-type: none"> <li>Review and approve Final FOST</li> <li>Coordinate with other State Agencies, EPA</li> <li>Attend one comment resolution meeting</li> </ul>
FOST	Draft and Final FOST for Parcel IIA/IIIA, Harbor Drive, Main Base & Camp Nimitz <b>Status [2]</b>	<ul style="list-style-type: none"> <li>Review and approve Draft and Final FOST</li> <li>Coordinate with other State Agencies, EPA</li> <li>Attend one comment resolution meeting</li> </ul>
BCP/BP	Draft and Final BCP/BP BRAC Cleanup Plan <b>Status [2]</b>	<ul style="list-style-type: none"> <li>Review and approve Draft and Final</li> <li>Attend one comment resolution meeting</li> </ul>
FS	Draft and Final Feasibility Study for Site 12 <b>Status [4]</b>	<ul style="list-style-type: none"> <li>Provide ARAR's</li> <li>Coordinate with other State agencies, EPA</li> <li>Review and approve</li> <li>Attend one comment resolution meeting</li> </ul>
PP	Draft and Final Proposed Plan for Site 12 <b>Status [4]</b>	<ul style="list-style-type: none"> <li>Review and approve</li> <li>Coordinate with other State agencies, EPA</li> <li>Attend one comment resolution meeting</li> </ul>
Closure Report	Draft and Final Closure Report for Site 15 <b>Status [2]</b>	<ul style="list-style-type: none"> <li>Review and Approve</li> <li>Attend one comment resolution meeting</li> </ul>
Fact Sheets	(3) Draft Fact Sheets <b>Status [2]</b>	<ul style="list-style-type: none"> <li>Review and provide comments on (3) Draft Fact Sheets</li> </ul>
Well Closure Plan	Draft and Final Well Closure Plan and Report <b>Status [2]</b>	<ul style="list-style-type: none"> <li>Review and approve Base-wide Well Closure Plan</li> <li>Review and approve Base-wide Well Closure Report</li> </ul>
RAB	Community Relations <b>Status [2]</b>	<ul style="list-style-type: none"> <li>Attend RAB meetings as scheduled (4 meetings)</li> </ul>
BCT	BRAC Clean-up Team Meetings <b>Status [1]</b>	<ul style="list-style-type: none"> <li>Participate in (4) BCT Meetings</li> </ul>

State Project Manager Corey WalshE-mail/Phone No. walsc@rb9.swrcb.ca.gov (858) 467-2980 Date: 10/7/99DoD Project Manager Andrea MuckermanE-mail/Phone No. muckermanam@efds.w.favfac.navy.mil Date: 10/7/99

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Also, use during Annual Funding Review**

**TWO-YEAR JOINT CA EXECUTION PLAN\***Service Southwest Division naval Facilities Engineering CommandName of Installation NTC San Diego

Project, or Operable Unit \_\_\_\_\_

State CA

Funding Source

DERP \_\_\_\_\_

BRAC 1 \_\_\_\_\_

BRAC 2 \_\_\_\_\_

BRAC 3 XXX

BRAC 4 \_\_\_\_\_

CA Period 1 JUL 00 – 30 JUN 02

<b>YEAR 2</b>	<b>July 1, 2001 to June 30, 2002</b>	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
ROD	Draft and Final ROD for Site 12	<ul style="list-style-type: none"> <li>• Review and approve</li> <li>• Coordinate with other State agencies, EPA</li> <li>• Attend one comment resolution meeting</li> </ul>
RD	Draft and Final RD for Site 12	<ul style="list-style-type: none"> <li>• Review and approve</li> <li>• Coordinate with other State agencies, EPA</li> <li>• Attend one comment resolution meeting</li> </ul>
BCP/BP	Draft and Final BCP/BP	<ul style="list-style-type: none"> <li>• Review and approve Draft and Final</li> <li>• Attend one comment resolution meeting</li> </ul>
FOST	Draft and Final FOST for Parcel IIIB/VII	<ul style="list-style-type: none"> <li>• Review and approve Draft and Final FOST</li> <li>• Coordinate with other State Agencies, EPA</li> <li>• Attend one comment resolution meeting</li> </ul>
RAB	Community Relations	<ul style="list-style-type: none"> <li>• Attend RAB meetings as scheduled (4 meetings)</li> </ul>
BCT	BRAC Clean-up Team Meetings	<ul style="list-style-type: none"> <li>• Participate in (4) BCT Meetings</li> </ul>

State Project Manager Corey WalshE-mail/Phone No. walsc@rb9.swrcb.ca.gov (858) 467-2980 Date: 10/7/99DoD Project Manager Andrea MuckermanE-mail/Phone No. muckermanam@efds.w.favfac.navy.mil Date: 10/7/99Phone No. (619) 532-4817

\* For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual Funding Review

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## TWO-YEAR JOINT CA EXECUTION PLAN

Service NAVY

Name of Installation Survival, Evasion, Resistance, and Escape Camp (SERE)

Funding Source: DERP

Project, or Operable Unit Site 1, SERE Camp Landfill

State California

**Water Board Lead, PCA # 166-97**

CA Period 1 JUL 00 – 30 JUN 02

<b>YEAR 1</b>	<b>July 1, 2000 to June 30, 2001</b>	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
Landfill Monitoring and Maintenance	- Landfill Monitoring and Maintenance <b>Status [2]</b>	<ul style="list-style-type: none"> <li>Review annual monitoring and maintenance report.</li> </ul>

<b>YEAR 2</b>	<b>July 1, 2001 to June 30, 2002</b>	
<u>Milestones</u>	<u>Tasks</u>	<u>State DSMOA Services</u>
Landfill Monitoring and Maintenance	- Landfill Monitoring and Maintenance	<ul style="list-style-type: none"> <li>Review annual monitoring and maintenance report.</li> </ul>

State Project Manager Charles Cheng

E-mail/Phone No. [chenc@rb9.swrcb.ca.gov](mailto:chenc@rb9.swrcb.ca.gov) / (858) 627-3930 Date: 12/2/99

DoD Project Manager Mark Bonsavage

E-mail/Phone No. [bonsavagemj@efds.w.navy.mil](mailto:bonsavagemj@efds.w.navy.mil) / 556-7315 Date: 12/2/99

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For all pen and ink changes, the IPM and SPM should date/initial or rewrite. Also, use during Annual

Date of Plan or Update: November 30, 1999

Status is For State Use Only. Insert appropriate Status Number after Milestones/Tasks listed on Year 1 table.  
Status Legend:

[1] In-Progress/Ongoing; [2] Completed; [3] Delayed, will finish in Year 1; and [4] Delayed, carryover to Year 2.